

Black Holes are Dark Matter Information is lost in Black Holes

Adrian Ferent

I discovered a new Gravitation theory which breaks the wall of Planck scale!

Abstract

My Nobel Prize - Discoveries

“Black Holes are Dark Matter”

Adrian Ferent

“Information is lost in Black Holes”

Adrian Ferent

“Gravitons change Matter in Dark Matter, inside a Black Hole”

Adrian Ferent

“Our universe will die; Gravitons will change Matter in Dark Matter, inside the Black Holes”

Adrian Ferent

Inside a Black Hole, this equation:

$$i\hbar \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Is replaced by this equation:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

How Matter is changed in Dark Matter by Gravitons:

Ferent equation for photon – graviton interaction, photon absorption by a Black Hole:

$$E = h \times f + a \times f + a \times v$$

where $a \times v$ is the energy of the graviton

v is the frequency of the interaction graviton.

I calculated: the graviton's energy emitted by black holes is higher than:

$$E = 4.14559 \times 10^5 \text{ GeV}$$

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k + v_k)$$

where f is the initial frequency of the photon.

Because graviton's frequency $v_k > f_k$ the energy E of the photon is higher after each photon-graviton interaction, this means photon's frequency is much higher and this is the process how Matter is change in Dark Matter inside a Black Hole.

That is why:

“Gravitons change Matter in Dark Matter, inside a Black Hole”

Adrian Ferent

That is why:

“Information is lost in Black Holes”

Adrian Ferent

“Black holes are Dark Matter”

Adrian Ferent

“Black holes are Ferent Matter”

Adrian Ferent

This is another proof that my Gravitation theory is right.

Wrong things what you learned about Black Holes, because Gravitons are not present in Einstein's wrong Gravitation theory!

That is why in my view Gerard 't Hooft, Leonard Susskind, Stephen Hawking, Jacob Bekenstein... are wrong regarding Black Holes:

Bekenstein and Hawking conjectured that the black hole entropy is directly proportional to the area of the event horizon divided by the Planck area.

From the entropy it is possible to use the usual thermodynamic relations to calculate the temperature of black holes.

The entropy measures how many such squares, whose side is a Planck length, are there on the surface of a black hole.

From here Gerard 't Hooft and Leonard Susskind suggested that the information is in fact preserved and is stored on the boundary of a system.

After the “The Black Hole War” Gerard 't Hooft, Stephen Hawking and Leonard Susskind agreed that the information is not lost inside a black hole; Gerard 't Hooft and Leonard Susskind discovered the holographic principle, the informational content of all the objects that have fallen into the black hole is entirely contained in surface fluctuations of the event horizon.

They considered a photon falling in a black hole, that will increase the black hole entropy and surface area; the black hole’s mass increases and the photon information is stored on the event horizon.

Alice and Bob thought experiments:

Alice jumps into a very large black hole, leaving Bob outside the event horizon. Physicists have assumed that Alice won’t notice anything unusual as she crosses the event horizon.

Gerard 't Hooft and Leonard Susskind are wrong because Information is lost in black holes.

That is why:

“The holographic principle is wrong”

Adrian Ferent

“My Quantum Gravity theory explains that the Event Horizon is made of Gravitons”

Adrian Ferent

That is why the informational content of all the objects that have fallen into the black hole is not contained in surface fluctuations of the event horizon.

What happens when we fall in a Black Hole?

“When we fall in a Black Hole, the Gravitons will break our atoms before we get to the event horizon”

Adrian Ferent

That is why:

Gerard 't Hooft and Leonard Susskind are wrong regarding Alice and Bob thought experiments, because the Gravitons will break the atoms of Alice and Bob, before they get to the event horizon.

You learned from your professors, from your books about the temperature of Black Holes!

“Because Black Holes are Dark Matter, Black Holes do not have temperature”

“Black holes are Ferent Matter”

Adrian Ferent

“Ferent Matter is Dark Matter with the density greater than Planck density”

Adrian Ferent

I discovered that Black holes are Dark Matter, I discovered that the Information is lost in Black Holes, I discovered what the Event Horizon is, I explained that the holographic principle is wrong and I discovered what happens when we fall in a Black Hole.

"The value of your brain is given by your discoveries"

Adrian Ferent

Couple of my discoveries:

1. I am the first who discovered a new quantum theory which breaks the wall of Planck
2. I am the first who Quantized the Gravitational Field
3. I am the first who explained what Black holes are: Black holes are Ferent matter
4. I am the first who discovered that the majority of dark matter is in the core of the supermassive black holes
5. I am the first who discovered another wall, the Ferent wall, beyond the Planck wall
6. I am the first who discovered Graviton energy: $E = av$
7. I am the first who discovered that Gravitons are faster than light
8. I am the first who discovered that Gravitational waves are Gravitons
9. I am the first who explained that Einstein's equivalence principle is wrong
10. I am the first who explained in the last 100 years that Einstein's General Theory of Relativity is wrong, because Einstein's equivalence principle is wrong
11. I am the first who explained that Gravitational field lines are gravitons
12. I am the first who replaced Heisenberg Uncertainty Principle with Ferent Uncertainty Principle

13. I am the first who discovered that String theory, LQG... are wrong theories, because it is wrong to Unify Einstein's Gravitation theory with Quantum Mechanics when Einstein's Gravitation theory is wrong

14. I am the first who discovered that Gravitational field is not continuous and differentiable function, how you learned from your professors in the last 200 years

15. I am the first who discovered that Dark Energy is Gravitons

16. I am the first who explained Gravitational Radiation

17. I am the first who discovered that Gravitons with highest energy are emitted by Black holes

18. I am the first who explained the lack of extraterrestrial civilizations

19. I am the first who calculated the Gravitons frequency emitted by a planet, by Earth:
 $\nu < 4.176 \times 10^{56} \text{ Hz}$

20. I am the first who calculated the Gravitons energy emitted by a Black hole:
 $E > 4.14559 \times 10^5 \text{ GeV}$

21. I am the first who discovered that there are not extraterrestrial civilizations in the center of our galaxy

22. I am the first who explained that the Earth attracts with greater force the Moon, than the Moon attracts the Earth

23. I am the first who explained how to understand Gravity in the frame of quantum mechanics

24. I am the first who discovered that Gravitons kill people

25. I am the first who explained the Gravitational redshift with Gravitons

26. I am the first who explained the Gravitational lensing with Gravitons

27. I am the first who discovered the equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times \nu$$

28. I am the first who explained that the momentum of the graviton is negative:

$$p = - m \times \nu$$

29. I am the first who explained that Mass does not bend space

30. I am the first who explained that Mass does not bend time
31. I am the first who explained that Gravitational time dilation is caused by negative momentum, negative energy
32. I am the first who calculated the speed of the Gravitons:
$$v_a = 1.001762 \times 10^{17} \text{ m/s}$$
33. I am the first who discovered that it is not possible to have a Big Bounce from the Planck scale
34. I am the first who discovered that Gravitons kill aliens
35. I am the first who discovered that Gravitational field is Gravitons
36. I am the first who discovered that Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum
37. I am the first in the last 100 years who explained that Einstein's Gravitation theory is wrong and Einstein's Gravitational waves do not exist
38. I am the first who explained the power density and the graviton flux
39. I am the first who discovered the force function for finite speed of the gravitons, the Ferent gravitational force function
40. I am the first who discovered that a black hole attracts with greater force a planet, than the planet attracts the black hole
41. I am the first who explained that Newton's third law is wrong
42. I am the first who discovered that the Gravitational waves have their energy contained in gravitons
43. I am the first who explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17} \text{ m/s}$, with Negative Momentum, Negative Relativistic Mass and Negative Energy
44. I am the first who discovered that Gravitons must be Faster than Light (FTL)
45. I am the first who discovered the Ferent length, much smaller than the Planck length
46. I am the first who discovered the Ferent frequency much higher than the Planck frequency

47. I am the first who discovered because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body

48. I am the first who discovered the equation for an elementary particle which emits a graviton:

$$(\hat{H} + \hat{H}_g)|\Psi\rangle = E|\Psi\rangle$$

49. I am the first who discovered the Ferent wave equation of the graviton:

$$i\hbar \frac{\partial}{\partial t}|\Psi\rangle = \hat{H}|\Psi\rangle$$

50. I am the first who discovered: Quantum Gravity Theory (QGT)

51. I am the first who explained Gravitation

52. I am the first who discovered what happens when we fall in a Black Hole: the Gravitons will break our atoms before we get to the event horizon

53. I am the first who explained that the holographic principle is wrong

54. I am the first who discovered that Black holes are Dark Matter

55. I am the first who explained that Information is lost in black holes

56. I am the first who explained what the event horizon is: the Event Horizon is made of Gravitons

57. I am the first who explained that our universe will die; Gravitons will change Matter in Dark Matter, inside the Black Holes

58. I am the first who discovered that Gravitons change Matter in Dark Matter, inside a Black Hole

59. I am the first who discovered that Black Holes do not have temperature, because Black Holes are Dark Matter

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

Adrian Ferent

“Your quotations are the CV of your wisdom”

Adrian Ferent

“I discovered a new Gravitation theory, a new Evolution theory and Transdisciplinarity equations!”

Adrian Ferent

“Gravitons kill Aliens”

Adrian Ferent

“I am the first who explained Gravitational Radiation”

Adrian Ferent

“Gravitons emitted by Black Holes kill Aliens”

Adrian Ferent

I calculated: the graviton’s energy emitted by black holes is higher than:

$$E = 4.14559 \times 10^5 \text{ GeV}$$

“Gravitational radiation is gravitons”

Adrian Ferent

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

Adrian Ferent

“I am the first who explained the lack of extraterrestrial civilizations”

Adrian Ferent

“Scientists are looking for extraterrestrial civilizations, where is a high density of stars and planets, around Black Holes, like in the center of our galaxy.

It is the same thing like looking for forests in the Sahara desert because is big”

Adrian Ferent

“Looking at stars I realized how powerful is the Mind, to know where the extraterrestrial civilizations in our Milky Way galaxy are”

Adrian Ferent

Where to look for extraterrestrial civilizations?

“Extraterrestrial civilizations are on planets moving around stars far away from Black Holes”

Adrian Ferent

The number of civilizations in our galaxy;

Drake equation:

$$N = R_* \cdot f_p \cdot n_e \cdot f_l \cdot f_i \cdot f_c \cdot L$$

The equation is wrong because Drake concluded that $N \approx L$, this means N is between 1000 and 100,000,000 civilizations in the Milky Way galaxy.

The Milky Way is estimated to contain 100–400 billion stars.
This means the majority of stars do not have at least a planet with intelligent life.

The Milky Way is home to more than 100 million black holes.
The Milky Way galaxy has a supermassive black hole, 4.1 million solar masses, at its center, 26000 light-years from the Solar System.

“Black holes are Ferent matter”
Adrian Ferent

The central cubic parsec around Sagittarius A* contains around 10 million stars.
How you can see in the picture there are a lot of stars in the center of our galaxy.
Because of Sagittarius A*:

“There are not extraterrestrial civilizations in the center of our galaxy”
Adrian Ferent



Where are extraterrestrial civilizations?

“The volume in Milky Way galaxy where life is possible:

$$V_l = V_M - \sum_{i=1}^n V_i$$

V_l – volume in Milky Way galaxy where life is possible

V_M – volume of the Milky Way galaxy

V_i – the volume around each black hole where intelligent life can not exist

n – the number of black holes in Milky Way galaxy”

Adrian Ferent

“Around each Black hole there is a volume where can not exist civilizations, because of deadly gravitons emitted by Black hole”

Adrian Ferent

We have to look for extraterrestrial civilizations, only in the volume V_l , not in the entire Milky Way galaxy like Drake equation and other equations do or how Asimov calculated.

The nearest known exoplanet is ‘Proxima Centauri b’ located at 1.3 parsec, from Earth.

The Fermi paradox is the apparent contradiction between the lack of evidence and high probability estimates for the existence of extraterrestrial civilizations.

Perhaps prudent civilizations actively hide not from our civilization, but from other more advanced civilizations.

“Why there is no evidence of extraterrestrial civilizations? Because gravitons emitted by black holes kill Aliens”

Adrian Ferent

“I am the first who explained the lack of extraterrestrial civilizations”

Adrian Ferent

The second black hole is 100000 times more massive than the sun, 200 light years from the center of the galaxy.

That is why:

“There are not extraterrestrial civilizations in the center of our galaxy”

Adrian Ferent

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

Adrian Ferent

Black holes closer to Earth: the black hole V404 Cygni is located 7800 light-years from Earth.

“I found the answer to this question: why the Universe is so quiet and why we do not see UFOs?”

There are only a small number of extraterrestrial civilizations in a galaxy; there are not extraterrestrial civilizations in the center of the galaxy where is the highest density of stars, there are not extraterrestrial civilizations around Black Holes”

Adrian Ferent

“Gravitons kill people”

Adrian Ferent

“Gravitons emitted by Black Holes kill people”

Adrian Ferent

“I am the first who explained Gravitational Radiation”

Adrian Ferent

“Gravitational radiation is gravitons”

Adrian Ferent

People ask, what is a Black Hole?

“Black Holes are Ferent matter”

Adrian Ferent

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

“The majority of Ferent matter is the core of the supermassive black hole, in the center of each galaxy”

Adrian Ferent

“During the Big Bang first emerged the gravitational force with the speed of the gravitons: $v = 1.001762 \times 10^{17} \text{ m / s}$ ”

Adrian Ferent

Gravitons speed is $v = 1.001762 \times 10^{17} \text{ m/s}$, how I explained in my Gravitation theory close to the speed of light squared, $v = c^2$.

Energy of the gravitons: $E = m \times v^2$

Energy of the gravitons: $E = m \times c^4$

m – relativistic mass of the gravitons

At high frequency, gravitons have high energy:

Energy of the gravitons: $E = a \times f$

Graviton energy emitted by Black holes:

Graviton momentum > Photon momentum

I considered gamma rays with the frequency:

$$f = 300 \text{ EHz} = 3 \times 10^{20} \text{ Hz}$$

The graviton energy emitted by black holes:

$$E = a \times v$$

$$E = 4.14559 \times 10^5 \text{ GeV}$$

This means:

“Gravitons emitted by Black holes are harmful”

Adrian Ferent

“Gravitons with highest energy are emitted by black holes”

Adrian Ferent

“Inside the black holes, Gravitational force is much stronger than the Strong nuclear force”

Adrian Ferent

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, anyone can get cancer at any age, but the risk goes up with age”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body”

Adrian Ferent

“The gravitons emitted by a black hole do not follow the curvature created by the black hole, because Einstein Gravitation theory is wrong”

Adrian Ferent

Today it is accepted that the center of almost every galaxy contains a supermassive black hole.

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

Adrian Ferent

Gravitational radiation is gravitational waves.

“Gravitational waves are gravitons”

Adrian Ferent

The gravitons have no electrical charge and no measurable mass.

“Gravitational radiation is the most penetrating type of radiation”

Adrian Ferent

Anyway today at least 1300 diseases are known to be caused by a mutation. This means Gravitational Radiation can cause a lot of diseases not only cancer.

From my Gravitation theory:

Graviton’s frequency emitted by a planet, by Earth:

$$\nu < 4.176 \times 10^{56} \text{ Hz}$$

“Graviton energy emitted by Earth is much smaller than 1 eV”

Adrian Ferent

That is why:

“Gravitons from Earth are harmless”

Adrian Ferent

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

Adrian Ferent

“I am the first who Quantized the Gravitational Field!”

Adrian Ferent

“I quantized the gravitational field with gravitons”

Adrian Ferent

“Gravitational field is Gravitons”

Adrian Ferent

The momentum operator for graviton:

$$\hat{p}_x = -i\underline{a} \frac{\partial}{\partial x}$$

$$\hat{p} = -i\underline{a}\nabla$$

Where:

\underline{a} – Ferent constant

$$\underline{a} = \frac{a}{2\pi}$$

Ferent wave equation of the graviton:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Ψ – the wave function of the graviton

Time-independent Ferent equation:

$$\hat{H} |\Psi\rangle = E |\Psi\rangle$$

A field is a physical quantity described by a number, vector, spinor, tensor that has a value for each point in space and time. For example the field strength is the magnitude of the vector.

That is why a field can be classified as a scalar field, a vector field, a spinor field, a tensor field.

You learned from your professors, from your books that the gravitational field g is a vector at each point of space and time, a vector pointing directly towards the particle. That is why the elements of differential and integral calculus extend naturally to vector fields.

For example Gauss's law for gravity states:

The gravitational flux through any closed surface is proportional to the enclosed mass

The integral form of Gauss's law for gravity:

$$\oiint_{\partial V} g \cdot dA = -4\pi GM$$

In my Gravitation theory, the gravitational field is not continuous and differentiable function.

Gravitons do not exist in Einstein's gravitation theory, because General relativity is not a quantum theory.

“In my Gravitation theory, the gravitational field is not a vector at each point of space and time, where there are not gravitons there is not gravitational field”

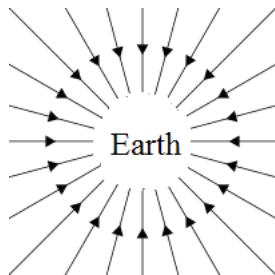
Adrian Ferent

Field lines are useful for visualizing vector fields; gravitational field lines come from infinity and end at masses.

The total number of flux lines is constant with increasing distance, where a greater density of flux lines (lines per unit area) means a stronger field.

For a sphere the density of flux lines is inversely proportional to the square of the distance from the source, because the surface area of a sphere increases with the square of the radius.

This means the strength of the gravitational field is inversely proportional to the square of the distance from the mass, like in this picture, closer to Earth the gravitational field is stronger:



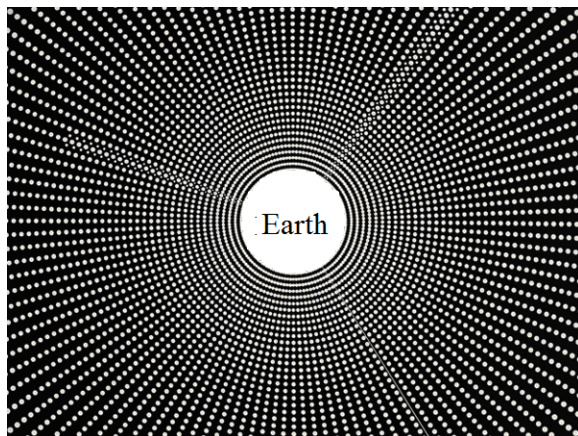
In my Gravitation theory the strength of the gravitational field is inversely proportional to the square of the distance from the sphere, because the surface area of a sphere increases with the square of the radius.

“In my Gravitation theory the density of flux lines is replaced by graviton flux”

Adrian Ferent

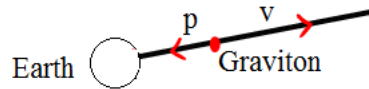
“Gravitational field lines are gravitons”

Adrian Ferent



“Each graviton in the gravitational field has a speed v and a negative momentum $p = -mv$ ”

Adrian Ferent



“The graviton flux is defined as the number of gravitons per second per unit area”

Adrian Ferent

$$\Phi = \frac{\# \text{ of gravitons}}{\text{sec } m^2}$$

“The power density is the graviton flux multiplied by the energy of a single graviton”

Adrian Ferent

$$H = \Phi \times \frac{av}{\lambda}$$

Where:

H – is the power density (W/m^2)

v - the gravitons speed

a – Ferent constant

“Gravitational field is Gravitons”

Adrian Ferent

“Gravitational field is a discrete function”

Adrian Ferent

Gravitational field is not continuous and differentiable function.

The momentum of the graviton is negative $p = -m \times v$.

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

You learned from your professors, from your books that a gravitational field is a model used to explain the influence of a mass into space.

You learned about couple gravitational fields, using PDEs (conditions of continuity and differentiability).

More complicated are the equations, more impressive is the theory for those who do not understand gravitations. Writing wrong and useless equations related to Einstein's wrong gravitation theory was the job for the scientists in the last 100 years.

In classical mechanics the gravitational field is the negative gradient of the gravitational potential:

$$g = -\nabla\Phi$$

Einstein did not understand gravity and reinterpreted gravity not as a force pulling on objects but as a curvature of spacetime.

Einstein's field equations:

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

Quantum theories of gravity like String theory, LQG... try to reconcile general relativity with the principles of quantum mechanics.

Because Einstein gravitation theory is wrong, quantum theories of gravity like String theory, LQG...are wrong theories.

Einstein did not receive the Nobel Prize for his theory, but they received in 2017 the Nobel Prize for detection of gravitational waves, predicted by Einstein's theory.

LIGO announced the first-ever direct detection of gravitational waves.

Einstein's gravitational waves do not exist, how they can detect them?"

Adrian Ferent

As a consequence of Einstein wrong gravitation theory, the physicists explained how they can travel trough a black hole, trough a wormhole.

"A black hole attracts with greater force a planet, than the planet attracts the black hole"

Adrian Ferent

This means:

"Newton's third law is wrong"

Adrian Ferent

"Gravitational waves carry negative energy"

Adrian Ferent

"Gravitational waves are carried by gravitons"

Adrian Ferent

This means gravitational waves carry gravitational energy and momentum.

“The Gravitational waves have their energy contained in gravitons”

Adrian Ferent

“The gravitons give a negative momentum to mass-carrying particles to attract them.”

Adrian Ferent

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

Adrian Ferent

The momentum of the graviton is negative $p = -m \times v$ and I calculated the speed of the graviton v_a .

“Because the momentum is negative, the relativistic mass $-m$ of the graviton is negative!”

Adrian Ferent

“The relativistic mass m of the graviton is negative, this implies that the energy of the graviton is negative, $E = -m \times v_a^2$.”

Adrian Ferent

This means:

“Gravitation is caused by negative energy”

Adrian Ferent

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

Einstein’s gravitational waves carry positive energy.

That is why:

“Einstein’s gravitational waves do not exist, how they can detect them?”

Adrian Ferent

This is another proof that LIGO is a fraud.

The 2017 Nobel Prize in Physics has been awarded for a project, the Laser Interferometer Gravitational-wave Observatory (LIGO) not for a scientific discovery; they did not detect anything because Einstein’s gravitational waves do not exist.

The same fraud was in 2013 with the Higgs Boson, the so-called “God particle”.

“The Gravitons are faster than light”

Adrian Ferent

“The gravitational redshift is the proof that the gravitons are faster than light”

Adrian Ferent

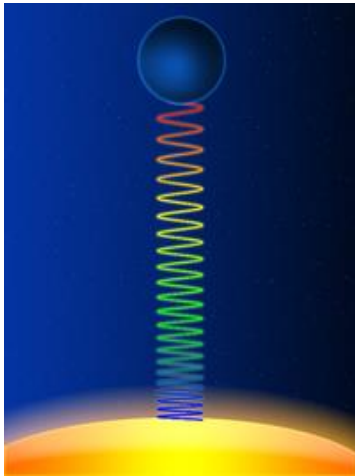
Because:

“The gravitons emitted after the photons are emitted, will not interact with the photons if they have only the speed of light”

Adrian Ferent

“I am the first who explained the gravitational redshift”

Adrian Ferent



Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

where $- a \times v$ is the negative energy of the graviton
 v is the frequency of the interaction graviton

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k - v_k)$$

where f is the initial frequency of the photon.

Because $v_k > f_k$ the energy E of the photon is smaller after each photon-graviton interaction, this means the frequency is smaller and this explains the gravitational redshift.

This is another proof that my Gravitation theory is right.
Only my Gravitation theory explains the gravitational redshift.

Another proof that the gravitons must be faster than light:

I am the first who understood and explained that gravitons with the speed of light are too slow to keep constellations together.

“If gravitons have only the speed of light will not be able to keep constellations together.”
Adrian Ferent

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”
Adrian Ferent

A graviton needs less then one second to travel between stars located within 10 light-years.

A light year value is $ly = 9.460536207 \times 10^{15}$ m, the speed of the graviton $v_a = 1.001762 \times 10^{17}$ m/s and $t = 10 \times ly / v_a$, this means $t < 1s$.

Another proof that the gravitons must be faster than light:

If the gravitons have only the speed of light, the light, the electromagnetic waves, the photons can escape from a black hole.

This means the gravitons must be faster than light.

You learned from your professors that nothing can travel faster than light; I explained that the gravitons are faster than light.

This is another proof that my Gravitation theory is right and Einstein Gravitation theory is wrong.

This is another proof that LIGO is a fraud, because gravitational waves are faster than light.

“Gravitational waves are carried by gravitons”
Adrian Ferent

“The Gravitational waves have their energy contained in gravitons”
Adrian Ferent

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”
Adrian Ferent

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”
Adrian Ferent

Gravitons are to gravitational waves in my Gravitation theory the theoretical analogue of photons for electromagnetic waves.

Gravitons are the carriers of the gravitational interactions at quantum level in my theory of quantized gravity.

Einstein did not receive the Nobel Prize for his wrong gravitation theory, but they received the Nobel Prize for the gravitational waves, predicted by Einstein's wrong theory.

Einstein did not understand quantum gravity.

Ferent quantum gravity theory is the right gravitation theory.

For Einstein, Gravitational waves are ripples in the curvature of spacetime that propagate as waves with the speed of light.

“Einstein's gravitational waves do not exist, how they can detect them?”

Adrian Ferent

“Einstein Gravitation theory is wrong because Einstein field equations are wrong.

Einstein Gravitation theory is wrong because mass does not bend space.

Einstein Gravitation theory is wrong because Gravitational waves are NOT ripples in the curvature of spacetime that propagate as waves with the speed of light.

Einstein Gravitation theory is wrong because Einstein equivalence principle is wrong.

Einstein Gravitation theory is wrong because is limited to the speed of light.

Because Einstein Gravitation theory is wrong, these pictures are wrong!

All physicists did not understand Gravitation; they followed Einstein Gravitation theory in the last 100 years.

Physicists discovered wrong theories like String theory, LQG...they tried to unify the forces of nature with Einstein Gravitation theory, a wrong theory.”

Adrian Ferent

“LIGO is the biggest fraud in science”

Adrian Ferent

“In the last 100 years nobody discovered 1 meter of curved space”

Adrian Ferent

I discovered that the Earth attracts with greater force the Moon, than the Moon attracts the Earth!

Before you begin to study wrong theories in physics and mathematics like Newton's gravitation theory, Einstein's gravitation theory, String theory, LQG...:

“Think more and Study less”

Adrian Ferent

People received a lot of information about Solar eclipses, but not much information about the Gravitational forces between the Earth and the Moon.

You learned from your professors and your books:

Newton's third Law of Motion: the law of Action and Reaction, if the Earth exerts a force on the Moon, the Moon must exert an equal and opposite force on the Earth.

This means the Earth attracts the Moon with an equal force with which the Moon attracts the Earth.

I explained before, at black hole – planet interaction:

“Newton's third law is wrong”

Adrian Ferent

From my Gravitation theory:

“Gravitational flux density is the amount of flux passing through a defined area that is perpendicular to the direction of the flux.”

Adrian Ferent

Because of the big distance between Earth and Moon, not all the gravitons emitted by the Moon will reach the Earth.

“The flux density of gravitons emitted by the Earth is bigger than the flux density of gravitons emitted by the Moon.”

Adrian Ferent

This means more gravitons will arrive from the Earth to the Moon than from the Moon to the Earth.

This means Newton's third law is wrong and:

“The Earth attracts with greater force the Moon, than the Moon attracts the Earth”

Adrian Ferent

I explained Gravitational time dilation!

Einstein's geometric gravity is not a force like in Newton's theory, but a consequence of the distortion of space and time.

Gravitational time dilation occurs when observers travel near an object through space-time and they measure that more time has elapsed between a given pair of events than has elapsed on a clock held by an observer further away from that object.

Gravitational time dilation, in the case of a non-rotating spherically objects:

$$t_0 = t_f \sqrt{1 - \frac{2GM}{rc^2}}$$

Conclusions from Einstein's Gravitation theory:

- 1) Time stops at the surface of a black hole, at r_s
- 2) Escape velocity from the surface of a black hole is c .
- 3) Time stops at speed c .

In my Gravitation theory, time does not stop at the surface of a black hole, at r_s and time does not stop at speed c .

Gravitational field is a field of force surrounding a body of finite mass.
“Gravitational flux is proportional to the number of gravitons going through a normally perpendicular surface.”

Adrian Ferent

The gravitational flux over a surface S is therefore given by the surface integral:

$$\Phi_G = \iint_S g dS$$

“Gravitational field strength is smaller at higher altitude, because the flux of gravitons to the same surface is smaller at higher altitude, this means fewer interactions.”

Adrian Ferent

“Interactions in my Gravitation theory, curvature in Einstein Gravitation theory”

Adrian Ferent

Because of fewer interactions with gravitons, clocks that are far from massive bodies run more quickly and clocks close to massive bodies run more slowly.

For example considered over the total lifetime of Earth, a clock set at the peak of Mount Everest run more quickly and would be about 40 hours ahead of a clock set at sea level(at Earth radius).

“Scientists are more rigorous to indoctrinate people, than clerics.

Clerics need a thousand years to indoctrinate population with a new religion, scientists needed one hundred years to indoctrinate the whole world with Einstein's Gravitation theory, a wrong theory.”

Adrian Ferent

All Gravitation theories based on Einstein gravitation theory are wrong, from example the String theory.

“Einstein bent the space, Ferent unbent the space”

Adrian Ferent

“Einstein bent the time, Ferent unbent the time”

Adrian Ferent

“Elementary particles emit and receive Gravitons!”

Adrian Ferent

“I discovered how to understand Gravity in the frame of quantum mechanics!”

Adrian Ferent

Elementary particles wave/particle duality:

All elementary particles are localized vibrations in their respective quantum fields, which propagate as waves.

“Elementary particles emit and receive gravitons because Gravity emerged at Ferent wall before the Planck wall; because elementary particles interact via the force of gravity.”
Adrian Ferent

Elementary particles emit a graviton:

$$\left(\widehat{H} + \widehat{H}_g\right) \Psi\rangle = E|\Psi\rangle$$

Elementary particles receive a graviton:

$$\left(\widehat{H} - \widehat{H}_g\right) \Psi\rangle = E|\Psi\rangle$$

The conservation law states that particular measurable properties of an isolated physical system like energy and linear momentum do not change as the system evolves in time.

“When a graviton is generated, it is generated the same energy and momentum, but with opposite sign which is received by the elementary particle”
Adrian Ferent

That is why:

Ferent equation for photon:

$$E = h \times f + a \times f$$

Photons similar to all quantum objects, exhibit wave-like properties and particle-like properties.

Conservation of energy and momentum when Elementary particles emit a graviton:

“The conservation law of energy states that the total energy of an elementary particle remains constant.

$$a \times f - a \times f = 0$$

The conservation law of linear momentum states that the total momentum of an elementary particle remains constant.

$$a / \lambda - a / \lambda = 0$$

This means the total energy and the total momentum are constant.”

Adrian Ferent

“The photon has Electric field, Magnetic field and Gravitational field components. Similarly Elementary particles have Gravitational field component.”

Adrian Ferent

I explained that inside a black hole, Gravitation is much stronger than the Strong nuclear force, Gravitons are stronger than Gluons!

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

The proton's total mass is about 938.3 MeV; the sum of the rest masses of the three quarks is approximately 9.4 MeV. This means the energy of the gluons inside the proton is ~1GeV.

If my Gravitation theory is right, the energy of the gravitons inside the black holes must be much higher than the energy of the gluons, 1GeV. Because inside the black holes, Gravitation must crushes all the Hadrons, due to Gravitational collapse.

“Because the electromagnetic waves, the photons, can not escape from a black hole, this means the gravitons momentum emitted by the black hole is higher than the momentum of the photons”

Adrian Ferent

Graviton momentum > Photon momentum

I considered gamma rays with the frequency:

$$f = 300 \text{ EHz} = 3 \times 10^{20} \text{ Hz}$$

This means, the gravitons frequency emitted by black holes must be:

$$\nu > 4.176 \times 10^{71} \text{ Hz}$$

The energy of this graviton must be much higher than the energy of the gluons ~1GeV, if my theory is right.

The graviton energy:

$$E = \nu \lambda$$

$$E = 4.14559 \times 10^5 \text{ GeV}$$

The energy of the gravitons inside a black hole is higher than: $4.14559 \times 10^5 \text{ GeV}$

“The energy of the gravitons inside a black hole, is much higher than the energy of the gluons”

Adrian Ferent

This means, this is the proof that:

“Inside the black holes, Gravitation is much stronger than the Strong nuclear force”

Adrian Ferent

This is another proof that my Gravitation theory is right.

“Ferent Gravitation theory explains the Universe at Galaxies level and at the Quantum level, explains black holes”

Graviton momentum > Photon momentum

Photon momentum:

$$p = hf / c$$

Graviton momentum:

$$p = a v / v_a$$

This means, the gravitons frequency emitted by black holes must be:

$$v > 4.176 \times 10^{71} \text{ Hz}$$

This frequency is close to the Ferent wall frequency and it is much higher than Planck frequency:

Ferent frequency at Ferent wall:

$$f_F = 7.728 \times 10^{85} \text{ Hz}$$

Gravitons with the frequency $v > 4.176 \times 10^{71}$ Hz are emitted by matter with the density much higher than the Planck density, these gravitons are emitted by Ferent matter.

This means:

“Black holes are Ferent matter”

Adrian Ferent

Einstein: Gravitation is acceleration and geometry, without gravitons.

Ferent: Gravitation is a force mediated by gravitons.

You learned from your professors: In the centre of a black hole is a gravitational singularity where all laws of physics break down and without gravitons.

Because the electromagnetic waves, the photons, can escape from a planet, I calculated the frequency of the gravitons emitted by a planet, by Earth:

In this case, radio waves with the frequency 300 kHz:

Graviton momentum < Photon momentum

Gravitons frequency emitted by a planet, by Earth:

$$v < 4.176 \times 10^{56} \text{ Hz}$$

This means:

This is the proof that Newton's third law is wrong:

The gravitational force exerted by a black hole on a planet is much higher than the gravitational force exerted by a planet on a black hole.

Graviton energy:

$$E = av$$

The proof:

The energy of the gravitons emitted by a black hole, the frequency of the gravitons emitted by a black hole $\nu > 4.176 \times 10^{71}$ Hz, is much higher than the energy of the gravitons emitted by a planet, than the frequency of the gravitons emitted by a planet $\nu < 4.176 \times 10^{56}$ Hz.

This is another proof that my Gravitation theory is right.

In the last 300 years you learned from your professors that Newton's third law is right.

Newton's third law:

For every action (force), there is an equal and opposite reaction.

For example one body exerts a force on a second body, simultaneously, at the same time, the second body exerts a force equal in magnitude and opposite in the direction on the first body.

This means that for every force there is a reaction force that is equal in size, but opposite in direction.

Newton's law of universal gravitation:

$$F_{12} = -G \frac{m_1 m_2 \hat{r}_{12}}{|r_{12}|^2}$$

By Newton's third law:

$$F_{12} = -F_{21}.$$

1. Why Newton's third law is wrong?

For example the interaction between a black hole and a planet, or a star:

“The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole. Because the energy of the gravitons emitted by the black hole is much higher than the energy of the gravitons emitted by the planet”

Adrian Ferent

This means Newton's third law is wrong:

$$F_{12} \neq -F_{21}$$

2. Why Newton's third law is wrong?

Because the reaction is not simultaneously, because the gravitons which mediate the gravitational force, have a finite speed, not an infinite speed.

This is another proof that my Gravitation theory is right.

Only my Gravitation theory explains that Newton's third law is wrong!

“Newton and Einstein did not understand Gravitation, they calculated Gravitation”
Adrian Ferent

“Einstein bent the space, Ferent unbent the space”
Adrian Ferent

Gravitation: I see Gravitons, Einstein saw geometry!

Einstein theory of gravitation is wrong because fails to explain Gravitational lensing and Gravitational redshift.

“Because the energy of the gravitons E_k is negative, the energy of the photon E after n interactions with gravitons it is smaller than the initial energy of the photon E_i .”
Adrian Ferent

$$E = E_i + \sum_{k=1}^n E_k$$

$$E = E_i + \sum_{k=1}^n E_k - \sum_{e=1}^n E_e$$

I discovered a new Gravitation theory after I realized that Einstein Gravitation theory is a wrong theory!

“Mass does not bend space”
Adrian Ferent

“The gravitons emitted by a black hole do not follow the curvature created by the black hole, because Einstein Gravitation theory is wrong”
Adrian Ferent

Einstein Gravitation theory is wrong because Einstein field equations are wrong.
Einstein Gravitation theory is wrong because Mass does not bend space.
Einstein Gravitation theory is wrong because Gravitational waves are NOT ripples in the curvature of spacetime that propagate as waves with the speed of light.
Einstein Gravitation theory is wrong because Einstein equivalence principle is wrong.
Einstein Gravitation theory is wrong because is limited to the speed of light.
Because Einstein Gravitation theory is wrong, these pictures are wrong!
All physicists did not understand Gravitation; they followed Einstein Gravitation theory in the last 100 years.
Physicists discovered wrong theories like String theory, LQG...they tried to unify the forces of nature with Einstein Gravitation theory, a wrong theory.

“Dark Energy is Gravitational Waves”
Adrian Ferent

“The momentum of the graviton is negative $p = - m \times v$ ”

Adrian Ferent

“Because the momentum is negative, the relativistic mass -m of the graviton is negative!”

Adrian Ferent

The causes of Planck universe to expand faster:

- The Ferent universe with supermassive black holes is speeding up the expansion of Planck universe.
- The negative pressure created by gravitons inside the Planck universe, is speeding up the expansion of Planck universe.
- Not the Dark energy is speeding up the expansion of Planck universe, because Dark energy does not exist.

“Dark Energy is Gravitons”

Adrian Ferent

“To oscillate photons need energy, that is why they emit Gravitons with negative energy and negative impulse.”

Adrian Ferent

“Ferent equation for the energy of a photon $E = h \times f + a \times f$ ”

Adrian Ferent

I discovered the equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

In my view the most important properties of the Gravitons:

1. Gravitons help photons (and all the particles) to oscillate.
2. Gravitons collapse matter, bring everything together.
3. Gravitons transfer energy, transfer mass. The Higgs boson is not involved.

It is our ultimate task to discover a new quantum theory which breaks the wall of Planck scale and creates a new frontier.

I found another wall, the Ferent wall beyond the Planck wall, where the Planck constant $h=6.62606957 \times 10^{-34}$ J·s is replaced by Ferent constant $a = 1.590511178 \times 10^{-76}$ J·s.

I replaced Max Planck equation $E = h \times f$ with the Ferent equation for the energy of a photon: $E = h \times f + a \times f$

I discovered graviton momentum: $p = a / \lambda$

I replaced Heisenberg Uncertainty Principle $\Delta p \times \Delta x \geq h / 4\pi$ with Ferent Uncertainty Principle: $\Delta p \times \Delta x \geq a$

I discovered a new electromagnetic theory.

“The majority of Dark matter is the core of supermassive black holes”

Adrian Ferent

The graviton has negative momentum, negative mass and negative energy.

I am the first who understood and explained that the gravitons with the speed of light, $c = 2.9979 \times 10^8$ m/s, are too slow to keep the constellations and the galaxy together. I explained Gravitation with high speed gravitons, $v_a = 1.001762 \times 10^{17}$ m/s.

Ferent gravitational force function:

$$F = \int_{-\infty}^{\infty} G \frac{m_1(t)m_2(t)}{r^2(t)} \delta\left(t - \frac{r(t)}{v(t)}\right) dt$$

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

“All the physicists, mathematicians, engineers...where not capable to explain the gravitational redshift”

Adrian Ferent

Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

After n photon – graviton interactions, the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k - v_k)$$

“Special theory of relativity is caused by positive energy”

Adrian Ferent

“Gravitational time dilation is caused by negative momentum, negative energy”

Adrian Ferent

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

Adrian Ferent

Because Einstein's equivalence principle is wrong, Einstein's gravitation theory is wrong. Until now we know that the graviton is massless, because the gravitational force have unlimited range, has only relativistic mass and must be spin $s = 2$.

The spin angular momentum of the graviton S:

$$S = \frac{a}{2\pi} \sqrt{s(s+1)}$$

My quantum gravity theory shows that the gravitons are too small to be detected by today's technology.

1. Introduction

All gravitation theories are limited to speed of light. In these theories speed of gravitations (gravitons) is equal with speed of light.

In my view the perturbation done by a photon in a gravitational field is equal with one graviton. Because light has gravitational property, light is deviated by mass; from here I started a new electromagnetic theory. Sometimes decoherence is due to gravitational field, to gravitational waves generated by an observer.

Perturbation of a photon in gravitational field is a graviton with the same frequency and speed as photon has; but the gravitons in my theory that mediates gravitational force, gravitons which mediates the interaction force, have different frequencies when the photon travels near an asteroid, near the Earth or near the Sun.

Electromagnetic force divided by gravitational force is photon energy divided by graviton energy.

This brought me to another wall beyond the Planck wall, with a length smaller than Planck length.

How about graviton speed?

I realized that speed of light is too small for graviton speed. If the graviton has only the speed of light, because black hole escape velocity is higher than the speed of light, my conclusion was: graviton speed is much higher than speed of light.

I discovered the Ferent gravitational force function.

Gravitational fields are conservative; the work done by gravity from one position to another is path-independent.

My theory

The oscillation of an electron emits, radiates to space a photon and a coupled graviton, with the same speed, the speed of light and the same frequency.

The energy E contained in a graviton, which represents the smallest possible 'packet' of energy in a gravitational wave, is the 'a' the Ferent constant times the frequency.

In my view the electromagnetic wave is the superposition of 3 sinusoids, because the photon has relativistic mass and travels with a coupled graviton.

I discovered a new gravitation theory and I found how gravitation and gravitons emerged at first Ferent wall. Here the gravitons have the speed equal with the speed of light and the Ferent length $l_a = 7.918359 \times 10^{-57}$ m.

Why gravitons faster than the speed of light?

Because I am the first in the world who understood and explained that the gravitons with the speed of light are too slow to keep the constellations together. The gravitons with the speed of light are too slow for the escape velocity of a black hole.

During the Big Bang first emerged the gravitational force with the speed of the gravitons:

$$v_a = 1.0017620 \times 10^{17} \text{ m/s}$$

These gravitons with the speed much bigger than the speed of light at the second Ferent wall have negative momentum, negative mass and negative energy.

At the second Ferent wall, the Ferent length $l_F = 1.296 \times 10^{-69} \text{ m}$.

The energy E of a photon

Planck discovered that physical action could not take on any indiscriminate value. Instead, the action must be some multiple of a very small quantity called Planck constant.

The Planck constant is a physical constant that is the quantum of action, describing the relationship between energy and frequency.

The energy E contained in a photon, which represents the smallest possible 'packet' of energy in an electromagnetic wave, is Planck's constant times the frequency:

$E = \text{Planck's constant} \times \text{frequency}$.

$$E = h \times f$$

Max Planck equation for the energy of a photon $E = h \times f$ is incorrect because does not contains the energy of the graviton, because light has gravitation!

Ferent equation for the energy of a photon:

$$E = h \times f + a \times f$$

Where h – is the Planck constant $h = 6.62606957 \times 10^{-34} \text{ J}\cdot\text{s}$ and a – is the Ferent constant $a = 1.590511178 \times 10^{-76} \text{ J}\cdot\text{s}$

The electromagnetic field is a physical field that is produced by electrically charged objects.

However, gravitational force is extremely weak when compared to electromagnetic force. In fact it is only about 1/s of the strength of the electromagnetic force.

$$s = 4.166 \times 10^{42}$$

2. My electromagnetic theory

In my view the electromagnetic wave is the superposition of 3 sinusoids, because the photon has relativistic mass and travels with a coupled graviton:

The Photon – Graviton pair (coupled) has the same speed and frequency and the solutions of Ferent electromagnetic equation:

$$E(r, t) = E_0 \cos(\omega t - kr + \varphi_0)$$

$$B(r, t) = B_0 \cos(\omega t - kr + \varphi_0)$$

$$g(r, t) = g_0 \cos(\omega t - kr + \varphi_0)$$

This means the Ferent electromagnetic equation:

$$\frac{\partial^2 E}{\partial t^2} - c^2 \nabla^2 E = 0 \quad \frac{\partial^2 B}{\partial t^2} - c^2 \nabla^2 B = 0 \quad \frac{\partial^2 g}{\partial t^2} - c^2 \nabla^2 g = 0$$

My equations:

$$\frac{1}{E_0} \frac{\partial E}{\partial t} = \frac{1}{g_0} \frac{\partial g}{\partial t}$$

A changing electric field generates a changing gravitational field and both sinusoids have the same derivative divided by their amplitude.

$$\frac{1}{B_0} \frac{\partial B}{\partial t} = \frac{1}{g_0} \frac{\partial g}{\partial t}$$

A changing magnetic field generates a changing gravitational field and both sinusoids have the same derivative divided by their amplitude.

Gravitoelectromagnetism

According to general relativity, the gravitational field produced by a rotating object or any rotating mass-energy, can be described by equations that have the same form as in classical electromagnetism.

I will replace the speed of light c with the Ferent speed v_a for the gravitons.

$$\nabla \cdot E_g = -4\pi G \rho_g$$

$$\nabla \cdot B_g = 0$$

$$\nabla \times E_g = -\frac{\partial B_g}{\partial t}$$

$$\nabla \times B_g = -\frac{4\pi G}{v_a^2} J_g + \frac{1}{v_a^2} \frac{\partial E_g}{\partial t}$$

where:

E_g - the static gravitational field
 B_g - the gravitomagnetic field
 ρ_g - the mass density
 J_g - the mass current density or mass flux
 G - the gravitational constant

Gravitational flux is a surface integral of the gravitational field over a closed surface:

$$\oiint_{\partial V} g \cdot dA = -4\pi GM$$

where:

g - the gravitational field
 ∂V - is any closed surface (the boundary of a closed volume V)
 dA - is a vector whose magnitude is the area of an infinitesimal part of the surface ∂V and whose direction is the outward-pointing surface normal
 M - is the total mass enclosed within the surface ∂V

Decoherence explained by my theory

The electromagnetic wave is the superposition of 3 sinusoids; this means the electromagnetic wave will be collapsed by the presence of an electric field, of a magnetic field, of a gravitational field, by another electromagnetic wave...

In my electromagnetic theory, gravity does collapse quantum superpositions, gravity bends light because light has 3 sinusoids, has a gravitational sinusoid!

In Maxwell electromagnetic theory, gravity does not collapse quantum superpositions, gravity does not bend light, because light has only 2 sinusoids!

So decoherence is due to the gravitational field, for example to the gravitational waves generated by the observer in the double-slit experiment.

3. The Ferent wall

Field

Field is a physics term for a region that is under the influence of some force that can act on matter within that region.

The electromagnetic field is mediated by the exchange of photons.

The gravitational field is mediated by the exchange of gravitons.

For example, the Sun produces a gravitational field that attracts the planets in the solar system and thus influences their orbits.

The ratio s

The magnetic force always acts at right angles to the motion of a charge, it can only turn the charge, it cannot do work on the charge.

The strength s , of the electromagnetic force relative to gravity force:

$$s = \frac{F_e}{F_g} = \frac{k_e q_e^2}{G m_e^2} = \frac{(8.99 \times 10^9)(1.60 \times 10^{-19})^2}{(6.67 \times 10^{-11})(9.10 \times 10^{-31})^2}$$

$$s = 4.166 \times 10^{42}$$

With 's' I calculated the Ferent constant.

Gravitation

Gravitation is a phenomenon by which all things attract one another including sub-atomic particles, planets, stars and galaxies.

The four fundamental forces: the gravitational force, the electromagnetic force, the strong nuclear force and the weak nuclear force are the four fundamental forces.

The gravitational force is mediated by a massless particle called the graviton.

Because gravitation is an inverse square force of apparently infinite range it can be implied that the rest mass of the graviton is zero.

Gravitational fields are conservative; the work done by gravity from one position to another is path-independent.

The 'a' constant

The electric and gravitational fields are quite similar.

In my view, the energy E contained in a graviton, which represents the smallest possible 'packet' of energy in an gravitational wave, is the 'a' constant times the frequency

$$E = a \times f$$

Now I consider the case of a photon and of a coupled graviton with the same frequency and the same speed emitted by an electron.

Because the strength, of electromagnetic energy relative to gravity energy it is the strength $s = 4.166 \times 10^{42}$, photon energy $E_p = h \times f$, divided by graviton energy $E_g = a \times f$ is $s = 4.166 \times 10^{42}$

The value of 'a'

We have $s = h / a$

Adrian Ferent constant $a = h / s$

Planck constant $h = 6.62606957 \times 10^{-34}$ J·s

This means the Ferent constant:

$$a = 1.590511178 \times 10^{-76} \text{ J}\cdot\text{s}$$

The momentum of the graviton

The momentum of a photon: $p = h / \lambda$

The momentum of a graviton: $p = a / \lambda$

I derived this equation from Klein–Gordon equation.

Because the graviton has the rest mass equal to zero and the speed is equal to the speed of light: $E = p \times c$

$E = a \times f$ from here $p \times c = a \times f$, and because $\lambda = c / f$, we have:

Graviton momentum:

$$p = a / \lambda$$

That is why the gravitons are too small to be detected by today's technology.

Uncertainty Principle

Observables such as position and momentum are represented by self-adjoint operators. When considering pairs of observables, an important quantity is the commutator. For a pair of operators their commutator is defined as:

$$[\hat{A}, \hat{B}] = \hat{A}\hat{B} - \hat{B}\hat{A}$$

In the case of position and momentum, the commutator is:

$$[\hat{x}, \hat{p}] = i\hbar$$

Position and momentum are vectors of operators and their commutation relation between different components of position and momentum can be expressed as

$$[\hat{r}_i, \hat{p}_j] = i\hbar\delta_{ij}$$

The physical meaning of the non-commutativity:

$$[\hat{x}, \hat{p}]\varphi\rangle = i\hbar|\varphi\rangle \neq 0$$

This implies that no quantum state can simultaneously be both a position and a momentum eigenstate.

In the case of position and momentum of a graviton, the commutator is:

$$[\hat{x}, \hat{p}] = i\underline{a}$$

Heisenberg Uncertainty Principle is limited for gravitons!

$$\Delta p \times \Delta x \geq h / 4\pi$$

Ferent Uncertainty Principle:

$$\Delta p \times \Delta x \geq a / 4\pi$$

From this equation: $p = a / \lambda$ by substituting Δx for λ :

$\Delta p \times \Delta x = a$ this means $\Delta p \times \Delta x \geq a$, much stronger inequality than the Heisenberg uncertainty principle.

This means $\Delta p \times \Delta x > a / 4\pi$ and in the same way like in the case of Heisenberg Uncertainty Principle, this equation can be refined to $\Delta p \times \Delta x \geq a / 4\pi$

The Uncertainty Principle implies that the gravitational field cannot be measured to arbitrary accuracy. The measured strength can only be given as an average over a spacetime region and not at individual spacetime points.

The energy of the graviton

Because $E = a \times f$ and $p \times c = a \times f$; $p = m \times c$; m – the relativistic mass of the graviton.

The energy of the graviton: $E = m \times c^2$

The Ferent length

Using the same equations as for the Planck units I can calculate all the units at Ferent wall.

Gravitational constant $G = 6.67384 \times 10^{-11} \text{ m}^3 \cdot \text{kg}^{-1} \cdot \text{s}^{-2}$

The Ferent length $l_a = 7.918359 \times 10^{-57}$ meters

$$l_a = \sqrt{\frac{aG}{c^3}}$$

The Ferent wall

I found another wall the Ferent wall beyond the Planck wall, where the Planck constant $h = 6.62606957 \times 10^{-34} \text{ J}\cdot\text{s}$ is replaced by Ferent constant $a = 1.590511178 \times 10^{-76} \text{ J}\cdot\text{s}$.

I replaced Max Planck equation $E = h \times f$ with the Ferent equation for the energy of a photon: $E = h \times f + a \times f$

I discovered the momentum of the graviton: $p = a / \lambda$

I replaced Heisenberg Uncertainty Principle $\Delta p \times \Delta x \geq h / 4\pi$ with Ferent Uncertainty Principle: $\Delta p \times \Delta x \geq a$

The energy of a graviton: $E = m \times c^2$

The Ferent length $l_a = 7.918359 \times 10^{-57} \text{ m}$

I discovered a new electromagnetic theory.

At Ferent wall emerged the gravitation and the gravitons with the energy $E_g = a \times f$ and the speed equal with the speed of light. Now I can calculate using the same equations from the Planck wall for the Planck units, the Ferent length, the Ferent time, the Ferent energy...and I can define very well the Ferent wall!

During the Big Bang first emerged the gravitational force at Ferent wall and after that the electromagnetic force, the strong nuclear force and the weak nuclear force.

This means I discovered a new gravitation theory and I found how the gravitation and the gravitons emerged at Ferent wall!

I can stop here with my gravitation theory.

Why to go beyond, what I considered it is limited is the speed of the gravitons equal with the speed of light.

Why gravitons faster than the speed of light?

4. Faster than speed of light!

I am the first in the world who understood and explained that gravitons with the speed of light are too slow to keep constellations together. Gravitons with the speed of light are too slow for the escape velocity of a black hole. The black hole escape velocity exceeds that of light.

I discovered the graviton: the momentum of the graviton, the energy of the graviton, the speed of the graviton, the frequency of the graviton, the mass of the graviton.

First problem: If gravitons have the speed of light will not be able to keep constellations together.

Second problem: the black hole has the escape velocity higher than the speed of light, this means the gravitons will not escape and the black holes will not attract anything.

These two problems convinced me that the gravitons have the speed much higher than the speed of light. The warping of spacetime is an effect of perturbation, not an interaction how I explained in my theory.

That is why General relativity theory, String theory, LQG...are wrong because are limited to speed of light.

Big Bang

The Universe is all of time and space and its contents like galaxies, the contents of intergalactic space and all matter and energy.

The theories may have insurmountable obstacles to complete testing them. Physics is an experimental science and there are limitations to pushing exploration to ever higher energies.

For example full exploration of the Planck scale may never be possible and the best that we may hope for is an occasional and limited test.

Multiverse theories may have different obstacles. The inherent limitations of testing multiverse theories will prove to be a barrier to full knowledge of the origin of the fundamental interactions if this is the solution that Nature has chosen. However, as always, more work is needed. We are far from complete in our exploration of either conventional theories or multiverse theories.

General relativity predicts the existence of spacetime singularities.

My theory is the same if the universe did not start with the Big Bang. My gravitation theory explains what happened at Ferent wall and after the expansion of the Universe attains the Ferent wall.

Two important walls:

The Ferent wall: here at time $t = 1.294 \times 10^{-86}$ s were created Ferent matter and gravitons with the speed of the gravitons $v_a = 1.001762 \times 10^{17}$ m/s.

The Planck wall: here at time $t = 5.391 \times 10^{-44}$ s were created matter and photons, with the speed of the photons $c = 2.997924 \times 10^8$ m/s.

The Universe is composed almost completely of dark energy, dark matter and ordinary matter.

The Universe will eventually stop expanding and start collapsing in on itself, the so called Big Crunch.

Special theory of relativity

In the second part of the 19th century, physicists were search for the mysterious thing called ether, the medium they thought existed for light waves to wave through. The idea of ether had caused a mess of things in Einstein's view, by introducing a medium that caused certain laws of physics to work in a different way depending on how the observer moved relative to the ether. Einstein just removed the ether completely and assumed that the laws of physics, including the speed of light, worked the identical regardless of how you were moving.

The theory was based on two principles:

The principle of relativity: The laws of physics don't change, even for objects moving in inertial (constant speed) frames of reference.

The principle of the speed of light: The speed of light is the same for all observers, regardless of their motion relative to the light source.

Special theory of relativity implies a wide range of consequences, which have been experimentally verified including length contraction, time dilation, relativistic mass, a universal speed limit the speed of light...

Special theory of relativity is "special" in that it only applies in the special case where the curvature of spacetime due to gravity is negligible. In order to include gravity, Einstein and Hilbert formulated general relativity in 1915.

If you move fast enough through space, the observations that you make about space and time differ to some extent from the observations of other people, who are moving at different speeds.

Time dilatation

The rate of a single moving clock indicating its proper time t_0 is lower with respect to two synchronized resting clock indicating time t .

The formula for determining time dilation in special relativity:

$$t = \gamma(v)t_0$$

where:

t_0 - is the proper time, the time interval between two co-local events

t - is the time interval between those same events, as measured by another observer, moving with velocity v with respect to the former observer

$\gamma(v)$ - is the Lorentz factor

$$t = \frac{t_0}{\sqrt{1 - \frac{v^2}{c^2}}}$$

This means the duration of the clock cycle of a moving clock increased, it is measured to be running slow.

Length contraction

Length contraction can be derived from time dilatation.

Length contraction is the phenomenon of a decrease in length of an object as measured by an observer which is traveling at any non-zero velocity relative to the object and it is usually only noticeable at a substantial fraction of the speed of light.

$$l = \frac{l_0}{\gamma(v)}$$

where:

l_0 - is the proper length (in its rest frame),

l - is the length observed by an observer in relative motion

$\gamma(v)$ - is the Lorentz factor

This means the length contraction:

$$l = l_0 \sqrt{1 - \frac{v^2}{c^2}}$$

where:

v - is the relative velocity between the observer and the moving object

c - is the speed of light

Length contraction refers to measurements of position made at simultaneous times according to a coordinate system.

“Lorentz, Poincaré, Einstein’s Special relativity is incorrect because is limited to the speed of light and to the photon energy” Adrian Ferent

Einstein field equations

General relativity is the geometric theory of gravitation published by Einstein and the current description of gravitation in modern physics.

General relativity generalizes special relativity and Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space and time.

General relativity is a metric theory of gravitation.

Einstein's field equations:

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

On the left-hand side is the Einstein tensor, a specific divergence-free combination of the Ricci tensor and the metric.

The right-hand side of the field equations describes matter sources, the behavior of which is governed by quantum theory. The left-hand side of the field equations describes gravitation as a classical field. If the right-hand side represents quantized matter then the field equations as they stand are inconsistent.

On the right-hand side, is the energy–momentum tensor and contains the speed of light.

The Einstein (Hilbert) field equations can be interpreted as a set of equations dictating how matter/energy determines the curvature of spacetime.

Einstein reinterpreted the gravity not as a force pulling on objects but as a curvature of spacetime.

For Einstein objects falling in a gravitational field like around the Earth aren't being pulled but are simply moving along geodesics in the warped spacetime surrounding the Earth.

For Einstein, the ball falls because spacetime is curving, not because there is a force pulling it back to Earth!

In Einstein's field equations gravitation is caused by a positive energy.

Einstein was erroneous, because in my view, the gravitons with negative energy, with high speed v_a moving in the gravitational field are the force carriers!

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

Adrian Ferent

Einstein general relativity theory does not work at quantum level and galaxy level.

Discrete space

Today we know that the space is not an infinitely divisible continuum, it is not smooth but granular and Planck length and Planck volume gives the size of its smallest possible grains.

Planck length, $l_p = 1.616199 \times 10^{-35}$ m

Planck volume, $l_p^3 = 4.22419 \times 10^{-105}$ m³

Conservation of Energy

The law of conservation of energy states that the total energy of an isolated system cannot change in time.

Planck energy is nature's maximum allowed matter energy for point-energy (quanta).

During the Big Bang, this means the Ferent energy at Ferent wall, is equal with the Planck energy.

From here I calculated the speed of a free (not coupled) graviton!

The speed of the graviton

The speed of the graviton v_a , where $\underline{a}=a/2\pi$

Gravitational constant $G = 6.67384 \times 10^{-11} \text{ m}^3 \cdot \text{kg}^{-1} \cdot \text{s}^{-2}$

$$\sqrt{\frac{av_a^5}{G}} = \sqrt{\frac{\hbar c^5}{G}}$$

From this equation the speed of the graviton is $v_a = 1.001762 \times 10^{17} \text{ m/s}$ much faster than the speed of light!

Ferent volume

Ferent length: $l_F = 1.296 \times 10^{-69} \text{ m}$

Ferent volume $l_F^3 = 2.18 \times 10^{-207} \text{ m}^3$

$$l_F = \sqrt{\frac{aG}{v_a^3}}$$

Ferent time

Ferent time $t_F = l_F / v_a = 1.294 \times 10^{-86} \text{ s}$

$$t_F = \sqrt{\frac{aG}{v_a^5}}$$

Ferent frequency

Ferent frequency:

$f_F = 1 / t_F = 7.728 \times 10^{85} \text{ Hz}$

Ferent energy

Ferent energy $E_F = \underline{a} \times f_F = 1.956 \times 10^9 \text{ J}$

$$E_F = \sqrt{\frac{av_a^5}{G}}$$

Ferent mass

Ferent mass:

$$m_F = E_F / v_a^2 = 1.949 \times 10^{-25} \text{ kg}$$

Ferent density

Ferent density $\rho_F = m_F / l_F^3 = 8.94 \times 10^{181} \text{ kg/m}^3$

$$\rho_F = \frac{v_a^5}{aG^2}$$

The volume of the universe

Mass of the universe: $M = 3 \times 10^{52} \text{ kg}$

The volume of the universe at Planck wall:

$$V_P = M / \rho_P = 3 \times 10^{52} \text{ kg} / 5.155 \times 10^{96} \text{ kg/m}^3 = 5.819 \times 10^{-45} \text{ m}^3$$

The volume of the universe at Ferent wall:

$$V_F = M / \rho_F = 3 \times 10^{52} \text{ kg} / 8.94 \times 10^{181} \text{ kg/m}^3 = 3.355 \times 10^{-130} \text{ m}^3$$

This means at Ferent wall the volume of the Universe was smaller than the atom volume. This means between Ferent wall and Planck wall the universe expanded $V_P / V_F = 1.546 \times 10^{85}$ times in a period $t = t_P - t_F = 5.391 \times 10^{-44} \text{ s}$.

This is the volume of Plank universe.

Dark matter

Dark matter is only one of the most important questions which astrophysicists are struggling with today.

The concept of dark energy is another very important question.

The nature of dark matter of Universe is one of the most difficult problems facing modern cosmology.

Bottom-up motivation for multiverse theories: there are a lot of ground states with different parameters and the universe realizes domains (subuniverses) with these diverse parameters.

We find ourselves in a domain or subuniverse with the right properties.

Where is the mysterious dark matter?

Scientists who have sought after for decades for the stuff that comprises most of the mass of the universe are starting to worry that they are looking in the wrong places.

After the latest null results, the chances for the scientists to detect dark matter are very small.

The observed flatness of the rotation curves of spiral galaxies is a clear indicator for dark matter.

Direct evidence of dark matter has been obtained through the study of gravitational lenses. On the theoretical side, we predict the presence of dark matter (or dark energy) because:

- 1) it is a strong prediction of most inflation models (and there is at present no good alternative to inflation).
- 2) our current understanding of galaxy formation requires substantial amounts of dark matter to account for the growth of density fluctuations.

Perhaps no other object from physics has had as much influence on public consciousness in recent times as the black hole has.

What is dark matter in my Gravitation theory?

At Ferent wall due to the extraordinarily small scale of the universe at that time, gravitation was the only physical interaction.

At Ferent wall were created Ferent matter and gravitons.

What is Ferent matter?

Ferent density \geq Ferent matter density $>$ Planck density

$8.94 \times 10^{181} \text{ kg/m}^3 \geq$ Ferent matter density $> 5.155 \times 10^{96} \text{ kg/m}^3$

That is why Ferent matter particles do not carry any electric charge.

Only a small percentage of Ferent matter becomes matter at Planck wall. Ferent matter is 84.5% of the total matter in the universe.

The majority of Ferent matter is the core of the supermassive black hole, in the center of each galaxy. Ferent matter plays a central role in galaxy formation and evolution.

Supermassive black holes of millions of solar masses exist in the centers of galaxies.

The best evidence for a supermassive black hole comes from studying the proper motion of stars near the center of our own Milky Way galaxy.

At the largest-size scales dark matter dominates the dynamics of galaxy clusters and superclusters.

How you can see the properties of Ferent matter are the properties of dark matter!

This means Dark matter is Ferent matter, interacts only gravitationally.

My gravitation theory explains dark matter!

“The majority of Dark matter is the core of the supermassive black holes”

Adrian Ferent

Proposed quantum gravity theories: String theory, LQG

There have been numerous theories of gravitation since ancient times.

The graviton in String theory is a closed string with the length of couple Planck lengths.

This means the graviton is gigantic that is why the String theory is limited to the speed of light!

LQG: the predicted size of this structure is the Planck length.
According to this theory, there is no meaning to distance at scales smaller than the Planck scale.

My quantum gravity theory breaks the wall of Planck scale.
A fundamentally geometric nature for gravitation would mean that a completely rigorous unification of all fields is not possible.

Anyway there are numerous quantum gravity theories, but all of them are limited to the speed of light.

My quantum gravity theory and information

In the beginning was the qubit.
At the beginning was the qubit of information.

In my view the information of our universe is in the gravitational field carried by gravitons (qubits).

Only a small part of the information is carried by photons.

The gravitons were not detected because they have a very small energy; the gravitons are too small to be detected by today's technology.
The light can not escape from the black hole, but the small gravitons with high speed and high frequency can very easy go through the event horizon.
In my view the gravitons with high speed and high frequency carry the black hole information!

Quantum entanglement explained

Quantum entanglement explains that information moves faster than light. If we have two electrons close together, they can vibrate in unison, entangled electrons, according to quantum theory.
If we then separate them an invisible cord emerges and connects the two electrons, even though they may be separated by many light years.
If we jiggle one electron, the other electron 'senses' this vibration faster than the speed of light. Einstein named 'spooky action at a distance'; he thought that this contradicts the quantum theory, since nothing can go faster than light.
In my view when the electron is jiggled it is a change in the gravitational field and the gravitons with a speed $v_a = 1.0017620 \times 10^{17}$ m/s faster than the speed of light will change the state of the entangled electron.

5. Gravitons with negative momentum, negative mass and negative energy

At Ferent wall started our Universe: matter has positive energy and the gravitational field has negative energy. If the two values cancel out, the universe has zero energy and can theoretically last forever.

The negative energy (- E) is needed to offset the positive energy +E of matters, negative gravitational potential energy offset positive energy.

$$E = 0 = +E + (- E)$$

$$E = (\sum + mc^2) + (\sum \frac{-GMm}{r})$$

The gravitons give a negative momentum to mass-carrying particles to attract them!

This means the momentum of the graviton is negative $p = - m \times v$ and I calculated the speed of the graviton v_a . Because the momentum is negative, the relativistic mass - m of the graviton is negative!

If the relativistic mass m of the graviton is negative, this implies that the energy of the graviton is negative, $E = - m \times v_a^2$!

Gravitational fields are conservative; the work done by gravity from one position to another is path-independent.

Conservative vector field is a vector field that is the gradient of a scalar potential $V(r)$.

Gravitational field: $g(r) = - \nabla V(r)$

Conservative vector fields have the property that the line integral is path independent, this means the choice of integration path between any point and another does not change the result.

Negative mass and Negative energy

Negative mass possess this property such as accelerating in the direction opposite of applied force.

Negative mass is mathematically consistent and introduces no violation of conservation of momentum or energy.

Newton's law of universal gravitation states that any two bodies both with positive mass or both with negative mass in the universe attract each other. But in the case of both bodies having negative mass the motion will be repulsive.

For two gravitons the equation:

$$- m\vec{a} = -G \frac{(-m)(-m)}{r^2} \hat{r}$$

Two objects with negative mass would accelerate away from each other, they repel each other.

This means the gravitons repel each other because they have negative mass.

Another case: a negative mass (energy) less massive (talking about absolute values here) than a positive mass body, is accelerated in the direction of positive mass body and it would move much faster and will 'catch up' with the positive mass body (attractive effect).

Positive mass has attractive effect on each other so it forms planets, stars and galaxies.

Negative mass has repulsive effect on each other so it can not form planets, stars and galaxies.

Positive mass–Ferent matter and negative mass-gravitons emerged together at Ferent wall in the energy and momentum conservation state.

Uniformly distributed negative mass receive attractive effect from massive positive mass, this is gravitation.

My Gravitation theory explains that the gravitons traveling between galaxies are the negative energy. These gravitons repel each other because they have negative mass and negative energy.

Conservation of momentum and conservation of energy

My theory is completely mathematically consistent and introduces no violation of conservation of momentum or energy. We have two masses equal in magnitude but opposite in sign, and then the momentum of the system remains zero if they both travel together and accelerate together, no matter what their speed:

Conservation of momentum:

$$P = m \times v + (-m) \times v = [m + (-m)] \times v = 0 \times v = 0$$

Conservation of the kinetic energy:

$$E = m \times v^2 \times 1/2 + (-m) \times v^2 \times 1/2 = [m + (-m)] \times v^2 \times 1/2 = 0 \times v^2 \times 1/2 = 0$$

We have positive mass m , the anti-gravitons and the negative mass $-m$, the gravitons at Ferent wall.

Ferent matter contains the anti-gravitons. Positive mass has attractive effect on each other so it forms dark matter and matter at Planck wall.

This means Ferent matter at Planck wall was divided in dark matter and matter.

Because the Ferent matter, the positive mass can not have the speed of the gravitons, between the Ferent wall and the Planck wall the universe had a negative acceleration: $(c - v_a) / (t_P - t_F) = (-1.001762 \times 10^{17} \text{ m/s}) / 5.391 \times 10^{-44} \text{ s} = -1.858 \times 10^{60} \text{ m/s}^2$.

The others gravity theories do not explain why the universe expanded and why the universe slowed down.

I discovered the graviton:

the momentum of the graviton, the energy of the graviton, the speed of the graviton, the frequency of the graviton and the mass of the graviton.

Dark energy

The expansion of the Universe is speeding up and not slowing down.

That is why perhaps there is some strange kind of energy that filled the space, possibly Einstein's theory of gravity is wrong and a new theory could include some kind of field that creates this cosmic acceleration. But physicists have given the solution a name and the name is dark energy.

Astronomical observations of universe in the past few decades, strongly invalidated astronomers' view point that the universe was entirely composed of "baryonic matter".

Dark energy is an unidentified form of energy which is hypothesized to permeate all of space, tending to accelerate the expansion of the universe. Dark energy is the mainly accepted hypothesis to elucidate the observations since the 1990s indicating that the universe is expanding at an accelerating rate.

Theoretically the universe had to slow because is full of matter and the attractive force of gravity pulls all matter together.

The standard model of cosmology shows that the best current measurements indicate that dark energy contributes 68.3% of the total energy in the observable universe. The mass-energy of dark matter is 26.8% and ordinary (baryonic) matter is 4.9%, respectively and other components such as neutrinos and photons contribute a very small amount.

The dark energy is uniform across space the density of dark energy ($\sim 7 \times 10^{-30} \text{ g/cm}^3$) is very low, much less than the density of ordinary matter or dark matter inside galaxies.

Dark Energy is a hypothetical form of energy that applies a negative, repulsive pressure, behaving like the opposite of gravity.

A number of ideas for the dark energy have been discussed including quantum vacuum energy (cosmological constant), a very light and slowly evolving scalar field and a frustrated network of topological defects. None is convincing and all have severe conceptual problems.

Another possibility is that Einstein's theory of gravity is not correct; already there are new candidate theories.

There are two proposed forms for dark energy; the cosmological constant, a constant energy density filling space homogeneously and scalar fields such as quintessence or moduli, dynamic quantities whose energy density it changes over time and space.

Energy is supposed to have a source either matter or radiation.

Measuring the equation of state for dark energy is one of the biggest efforts in observational cosmology today.

We have to decide between dark energy possibilities like a property of space, a new dynamic fluid or a new gravitation theory.

Dark energy is thought to be very homogeneous, not very dense and is not known to interact through any of the fundamental forces other than gravity.

Possible solutions for dark energy; one is that the universe is filled with a changing energy field, known as quintessence and another is that scientists do not properly understand how gravity works.

“Dark energy does not exist”

Adrian Ferent

Einstein's theory of gravity is not correct

Ferent Gravitation theory: Gravitation is a force mediated by gravitons, not limited to the speed of light.

In Einstein Gravitation theory the gravitational waves have the speed of light, detected by LIGO?

In Ferent Gravitation theory the gravitational waves have the speed of the gravitons 10^{17} m/s, not detected by LIGO!

Why the Graviton smaller 10^{42} times than a photon, can not travel faster than the speed of light?

In the last 100 years physicists did not understand Gravitation, they considered that the space pushes them into their chairs, following Einstein gravitation theory.

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

Nobel Prize and Dark Energy

Saul Perlmutter, Brian Schmidt and Adam Riess won for their shared discovery that the cosmos is expanding at an accelerating rate.

Only couple decades ago most of the scientists believed that the universe could be described by Albert Einstein and Willem de Sitter's simple and elegant model from 1932 in which gravity is gradually slowing down the expansion of space; but today we know that the cosmos is expanding at an accelerating rate.

“The acceleration is thought to be driven by dark energy, but what that dark energy is remains an enigma - perhaps the greatest in physics today. What is known is that dark energy constitutes about three quarters of the Universe. Therefore the findings of the 2011 Nobel Laureates in Physics have helped to unveil a Universe that to a large extent is unknown to science.”

This was an amazing finding.

This means there must be a force much more strange and bizarre than anyone had thought. Nobody knows what this force is, but after another decade of calculations, physicists know it makes up about 74 percent of the universe. "We call it dark energy to express ignorance" Perlmutter said in a lecture in 2008.

Professor Schmidt speculates that it may change over time, but not enough in order for us to detect it.

"Dark energy has the property that the bigger the Universe becomes, the more dark energy we will have" and adds immediately, "It's really weird! That's why we don't like this stuff".

If it does turn out that dark energy does not interact at any level, then we can't make it and we can't detect it. "That would be really frustrating", Schmidt said and "It could potentially stay a mystery to us forever."

“Dark energy does not exist”

Adrian Ferent

Perturbation and interaction. LIGO, LISA

Einstein's General Relativity theory is the perturbation of the gravitational field by the presence of an object, of a mass. That is why Einstein's General Relativity theory does not explain gravitation, explains only an effect of gravitation.

In Einstein's General Relativity theory gravitational force is not an interaction force, does not explain how the gravitons mediate the gravitational force.

That is why there are wrong projects like LIGO, LISA

LISA is a proposed European Space Agency mission designed to detect and accurately measure gravitational waves the small ripples of spacetime from astronomical sources. Gravitational wave astronomy seeks to use direct measurements of gravitational waves to study astrophysical systems and to test Einstein's theory of gravity.

In my view LIGO, LISA measures only a perturbation in the gravitational field, not the flux of gravitons (with a speed much bigger than the speed of light), the real gravitational wave, the interaction force.

Einstein's General Relativity theory is only the geometric theory of gravitation.

I realized that people do not understand in my theory the difference between perturbation and interaction! That is why there are developed wrong projects like LIGO, LISA...

The perturbation of a photon in the gravitational field is a graviton with the same frequency and speed as the photon has; but the gravitons in my theory that mediate the gravitational force, the gravitons which mediate the interaction force have different frequencies when the photon travels near an asteroid, near the Earth or near the Sun.

To understand this you have to understand the amplitude modulation of an electrical signal in electronics.

The amplitude (signal strength) of the carrier wave is varied in proportion to the waveform being transmitted.

In LIGO, LISA, Einstein General Relativity theory... waveform being transmitted is considered the carrier wave and that is a mistake.

The equivalence principle is wrong

General theory of relativity is Einstein's geometric theory of gravitation and the current description of gravitation in modern physics. In general relativity, the effects of gravitation are attributed to spacetime curvature instead of a force.

The equivalence principle is the foundation of General Relativity.

The equivalence principle in the theory of general relativity is dealing with the equivalence of gravitational and inertial mass and to Einstein's observation that the gravitational force as experienced locally while standing on a massive body like Earth is actually the same as the force experienced by an observer in a non-inertial (accelerated) frame of reference.

According to general relativity, objects in a gravitational field behave similarly to objects within an accelerating enclosure.

Einstein proposed an experiment involving two elevators: one at rest on Earth and another elevator far out in space away from any planet or star and accelerating upward with an acceleration equal to that of Earth gravity, 9.8 m / s^2 .

If a ball is dropped in the elevator at rest on the Earth, it will accelerate toward the floor with an acceleration of 9.8 m / s^2 . A ball released in the upward accelerating elevator far out in space will also accelerate toward the floor at 9.8 m / s^2 .

The two elevator experiments get the same result.

In Einstein's elevator experiment, for an observer in a small enclosed elevator, it is impossible to decide, by mapping the trajectory of bodies such as a dropped ball, whether the elevator is at rest in a gravitational field or in free space, where the elevator is accelerating at a rate equal to that of the gravitational field 9.8 m / s^2 .

Since I saw this equivalence principle I was thinking that something is wrong here.
What is wrong here?

“Gravitation is caused by negative energy”

Adrian Ferent

The gravitons have negative energy!

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

Adrian Ferent

The ball dropped in the elevator at rest on the Earth, it will accelerate toward the floor because of the gravitons negative energy from Earth and the ball released in the upward accelerating elevator far out in space will also accelerate toward the floor but because of the positive energy applied to the elevator.

Because Einstein's equivalence principle is wrong, Einstein's gravitation theory is wrong.

Spacetime is distorted in a gravitational field

In general relativity, the effects of gravitation are attributed to spacetime curvature instead of a force.

Gravitation is most exactly described by Einstein's general theory of relativity which describes gravity not as a force, but as a consequence of the curvature of spacetime caused by the uneven distribution of mass/energy.

As spacetime is distorted in a gravitational field, relativistic effects such as time dilation and length contraction take effect.

Time dilation is explained basically enough: closer to the source of gravity, slower the time passage.

The most extreme example of this curvature of spacetime is a black hole, from which nothing can escape, not even light once past its event horizon.

The weaker the gravitational potential (the farther the clock is from the source of gravitation), the faster time passes.

Special theory of relativity implies a wide range of consequences, which have been experimentally verified including length contraction, time dilation, relativistic mass, a universal speed limit the speed of light...

Special theory of relativity is "special" in that it only applies in the special case where the curvature of spacetime due to gravity is negligible. In order to include gravity, Einstein and Hilbert formulated general relativity in 1915.

If you move fast enough through space, the observations that you make about space and time differ to some extent from the observations of other people, who are moving at different speeds.

What is the difference between time dilation in Special theory of relativity and Gravitational time dilatation?

Time dilation in Special theory of relativity is caused by positive energy.

“Special theory of relativity is caused by positive energy”

Adrian Ferent

“Gravitational time dilatation is caused by negative energy”

Adrian Ferent

The force of Gravitation is mediated by gravitons with negative energy.

Ferent gravitational force function

Newton formulation of a gravitational force law requires that each particle with mass respond instantaneously to every other particle with mass irrespective of the distance between them; Newton's theory assumes the speed of gravity to be infinite.

Einstein applied his field equations to cosmology. He liked the idea of a static universe (one that neither expands nor contracts) but he found that his equations would not produce one. That is why he added a term to the curvature side of the equation called the cosmological constant, keeping the model static. This shows that Einstein like Newton did not understand the dynamical universe.

In 1922 Friedmann published a paper where he used Einstein's original equations without the cosmological constant term to show that the universe must be dynamical.

The gravitational force on a particle at a given location d , and time t , depends on the position of the source particles at an earlier time due to the finite speed of the gravitons.

Ferent gravitational force function is a convolution of two functions, the Newton (Hooke) law of universal gravitation function and Dirac delta function.

Newton (Hooke) law of universal gravitation:

$$F = G \frac{m_1 m_2}{r^2}$$

where:

F - the force between the masses

G - the gravitational constant

m_1 - the first mass;

m_2 - the second mass;

r - the distance between the centers of the masses

Dirac delta function can be thought of as a function on the real line which is zero everywhere except at the origin, where it is infinite.

The Dirac delta function can be rigorously defined either as a distribution or as a measure.

$$\delta(x) = \begin{cases} +\infty, & x = 0 \\ 0, & x \neq 0 \end{cases}$$

and which is also constrained to satisfy the identity

$$\int_{-\infty}^{\infty} \delta(x) dx = 1$$

Because Newton formulation of a gravitational force law is not right and Einstein, Hilbert General Relativity theory is limited to the speed of light, here is how I calculated the gravitational force:

Ferent gravitational force function:

$$F = \int_{-\infty}^{\infty} G \frac{m_1(t) m_2(t)}{r^2(t)} \delta\left(t - \frac{r(t)}{v(t)}\right) dt$$

where:

$m(t)$ – I considered the mass a function of time

$r(t)$ – the distance between the centers of the masses

$v(t)$ – the speed of the gravitons

Ferent gravitational force function:

$$F = \int_{-\infty}^{\infty} G \frac{m_1(t)m_2(t)}{r^2} \delta\left(t - \frac{r}{v}\right) dt$$

where:

$m(t)$ – I considered the mass a function of time

r – the distance between the centers of the masses

v – the speed of the gravitons

If the mass is not a function of time:

$$F = G \frac{m_1 m_2}{r^2} \int_{-\infty}^{\infty} \delta\left(t - \frac{r}{v}\right) dt$$

Because the speed of the gravitation is not infinite like Newton considered.

Newton's theory assumes that the speed of gravitons to be infinite, this implies a static model for the universe; this static model is presented today to the students.

Ferent electric force function

Coulomb's law is requires infinite speed for the photons, but the speed of the photons is limited; it is the speed of light.

$$F = k_e \frac{q_1 q_2}{r^2}$$

where:

F – the force between two point charges

k_e – the Coulomb's constant

q_1 – the first charge

q_2 – the second charge

r – the distance between the charges

Ferent electric force function is a convolution of two functions, the Coulomb's law and Dirac delta function.

$$F_e = \int_{-\infty}^{\infty} k_e \frac{q_1(t)q_2(t)}{r^2(t)} \delta\left(t - \frac{r(t)}{c(t)}\right) dt$$

where:

$q(t)$ – I considered the charges function of time

$r(t)$ – the distance between the charges

$c(t)$ – the speed of the photons

The gravitational field equation $g(r,t)$

The gravitational force $F = Mg$

The gravitational field equation is:

$$g = -\nabla \psi - \frac{\partial D}{\partial t}$$

ψ - scalar potential of gravitational field

D - vector potential of gravitational field

The Liénard–Wiechert potentials describe the classical electromagnetic effect of a moving electric point charge in terms of a vector potential and a scalar potential. These potentials describe the complete, relativistically correct, time-varying electromagnetic field for a point charge in arbitrary motion, but are not corrected for quantum mechanical effects.

I used these potentials which describe the classical electromagnetic effect of a moving electric point charge, as potentials which describe the classical gravitational effect of a moving mass and to calculate the gravitational field equation.

The retarded time t_r :

$$t_r = t - \frac{|r - r_s|}{v_a}$$

The scalar potential of gravitational field:

$$\psi(r, t) = G \left(\frac{m}{(1 - n\beta)|r - r_s|} \right)_{t_r}$$

where:

$$\beta(t) = \frac{v_s(t)}{v_a} \text{ and } n(t) = \frac{r - r_s(t)}{|r - r_s(t)|}$$

where:

v_a – the speed of the gravitons

v_s – the speed of the mass m

r_s – the position of the mass m

The vector potential of gravitational field:

$$D(r, t) = \frac{\beta(t_r)}{v_a} \psi(r, t)$$

The gravitational field equation is:

$$g(r, t) = G \left(\frac{m(n - \beta)}{\gamma^2 (1 - n\beta)^3 |r - r_s|^2} + \frac{mn \times ((n - \beta) \times \dot{\beta})}{v_a (1 - n\beta)^3 |r - r_s|} \right)_{t_r}$$

where:

$$\gamma(t) = \frac{1}{\sqrt{1 - |\beta(t)|^2}}$$

The $(n - \beta)$ is part of the first term updates the direction of the field toward the instantaneous position of the mass m , if it continues to move with constant velocity. This term is connected with the 'static' part of the gravitational field of the mass m .

The second term, which is connected with gravitational radiation by the moving mass m , requires mass acceleration.

Einstein Gravitation theory is wrong

Einstein Gravitation theory is wrong because Einstein field equations are wrong.

Einstein Gravitation theory is wrong because Mass does not bend space.

Einstein Gravitation theory is wrong because Gravitational waves are NOT ripples in the curvature of spacetime that propagate as waves with the speed of light.

Einstein Gravitation theory is wrong because Einstein equivalence principle is wrong.

Einstein Gravitation theory is wrong because is limited to the speed of light.

Because Einstein Gravitation theory is wrong, this picture is wrong!

All physicists did not understand Gravitation; they followed Einstein Gravitation theory in the last 100 years.

Einstein Gravitation theory: Gravitation is a distortion of space-time, limited to the speed of light.

Ferent Gravitation theory: Gravitation is a force mediated by gravitons, not limited to the speed of light.

In Einstein Gravitation theory the gravitational waves have the speed of light, detected by LIGO?

In Ferent Gravitation theory the gravitational waves have the speed of the gravitons 10^{17} m/s and can not be detected by LIGO.

All physicists did not understand Gravitation; they followed Einstein Gravitation theory in the last 100 years.

Physicists discovered wrong theories like String theory, LQG...they tried to unify the forces of nature with Einstein Gravitation theory, a wrong theory.

Einstein Gravitation theory is wrong because Einstein field equations are wrong.

The Einstein field equations are the set of 10 equations in Einstein's general theory of relativity that describes the fundamental interaction of gravitation as a result of spacetime being curved, bent by mass and energy.

Einstein's field equations:

$$R_{\mu\nu} - \frac{1}{2} R g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$$

On the left-hand side is the Einstein tensor, a specific divergence-free combination of the Ricci tensor and the metric.

The right-hand side of the field equations describes matter sources, the behavior of which is governed by quantum theory.

Einstein field equations are wrong because space is not curved, is not bent by mass and energy.

Einstein field equations can be interpreted as a set of equations dictating how matter and energy determines the curvature of spacetime.

The Einstein field equations were initially formulated in the context of a four-dimensional theory; some theorists have explored their consequences in n dimensions.

For Einstein, the ball falls because spacetime is curving, not because there is a force pulling it back to Earth!

In Einstein's field equations gravitation is caused by a positive energy.

Einstein general relativity theory does not work at quantum level and galaxy level.

Einstein field equations are wrong because the space curvature do not pushes you on the chair, because space is not a force.

For me Gravitation is a force mediated by gravitons, not limited to the speed of light.

Einstein Gravitation theory is wrong because Mass does not bend space.

The space and time which must be put together as space-time, is curved near heavy masses, postulate on which Einstein's General Relativity is built.

“The light emitted by the Sun, do not follow the curvature created by the Sun, because Einstein Gravitation theory is wrong”

Adrian Ferent

Black hole: the gravitational force at surface becomes so large that nothing can escape, no matter how fast it accelerates. Not even a beam of light can not escape, from here is the name black hole. Black holes are typical strong gravity phenomena.

When they reach a point of no return they are said to have entered the event horizon, the point from which any escape is impossible.

“The gravitons emitted by a black hole do not follow the curvature created by the black hole, because Einstein Gravitation theory is wrong”

Adrian Ferent

This means:

“Mass does not bend space”

Adrian Ferent

Einstein Gravitation theory is wrong because Gravitational waves are NOT ripples in the curvature of spacetime that propagate as waves with the speed of light.

Gravity in Einstein Gravitation theory is treated as a phenomenon resulting from the curvature of spacetime. The curvature of spacetime is caused by the presence of mass. More mass is contained within a given volume of space, the greater the curvature of spacetime will be at the boundary of its volume.

In Einstein Gravitation theory, gravitational waves are ripples in the curvature of spacetime that propagate as waves with the speed of light.

When gravitational wave passes an observer, the observer will find spacetime distorted by the effects of the displacement between particles in the body relative to a reference length.

Gravitational waves are radiated by objects whose motion involves acceleration.

In my view LIGO, LISA measures only a perturbation in the gravitational field, not the flux of gravitons (with a speed much bigger than the speed of light), the real gravitational wave, the interaction force.

LISA is the first dedicated space-based gravitational wave detector.

With LIGO on Earth, with LISA in space scientists try to detect gravitational waves, wasting a lot of money on a wrong theory, Einstein Gravitation theory.

Gravitational waves cannot exist in the Newton's law of universal gravitation, because those physical interactions propagate at infinite speed.

Einstein Gravitation theory is wrong because Einstein equivalence principle is wrong.

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

Adrian Ferent

Because Einstein's equivalence principle is wrong, Einstein's gravitation theory is wrong.

Einstein Gravitation theory is wrong because is limited to the speed of light.

I am the first in the world who understood and explained that gravitons with the speed of light are too slow to keep constellations together.

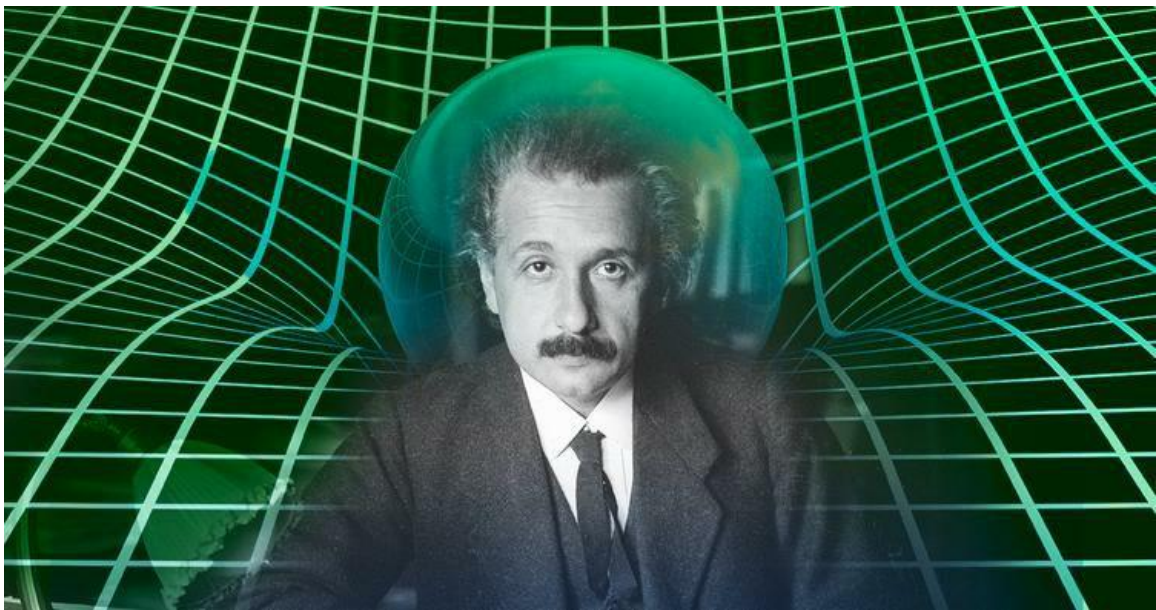
When people saw the same constellations for years, they were supposed to understand that the gravitons with the speed of light are too slow to keep those stars together. That is why Einstein-Hilbert field equations, String theory, LQG... are limited, because are limited to the speed of light.

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”
Adrian Ferent

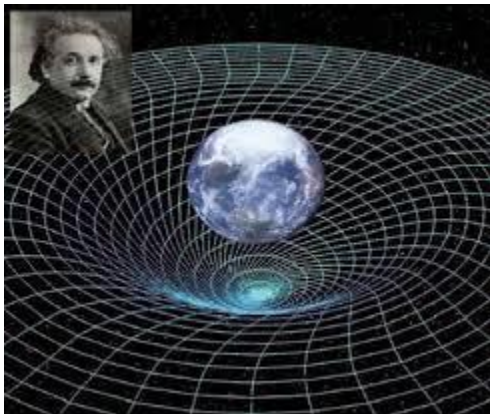
Because Einstein Gravitation theory is wrong, these pictures are wrong!

This picture is wrong because:

“Mass does not bend space”
Adrian Ferent



Another wrong picture, because Einstein Gravitation theory is wrong:



My Gravitation theory is completely different than Einstein's Gravitation theory where Gravitational waves are ripples in the curvature of spacetime that propagate as waves with the speed of light.

6. Quantization of the gravitational field

Modern physics has two basic theories: quantum physics and general relativity.

Quantum physics studies the very smallest objects in nature, while relativity studies nature on the scale of planets, galaxies, and the universe as a whole.

The gravitational field consists of discrete energy quantity, the gravitons.

The problem with quantum gravity is that quantum gravitational effects are only expected to become apparent near the Planck scale, a scale far smaller in distance and equivalently far larger in energy than what is currently accessible at high energy particle accelerators.

That is why quantum gravity is a mainly theoretical project.

At present, one of the deepest problems in theoretical physics is harmonizing the theory of general relativity, which describes gravitation, and applications to large-scale structures (stars, planets, galaxies), with quantum mechanics, which describes the other three fundamental forces acting on the atomic scale.

I explained Gravitation with quantum mechanics; this means all four fundamental forces acting on the atomic scale are described with quantum mechanics.

Gravitons are massless particles of definite energy and definite momentum.

The gravitational field consists of discrete energy quantity av , where a is Ferent's constant and v is the frequency of the graviton.

A quantum mechanical graviton state $|k, \mu\rangle$ belonging to mode (k, μ) has the following properties:

$$m_{\text{graviton}} = 0$$

$$H|k, \mu\rangle = av|k, \mu\rangle \text{ with } v = v_a|k|$$

k - the wave vector

μ - the spin of the graviton

The single-graviton state is an eigenstate of the momentum operator, and \underline{ak} is the eigenvalue (the momentum of a single graviton).

$$P|k, \mu\rangle = \underline{ak}|k, \mu\rangle$$

These equations say respectively: a graviton has zero rest mass; the graviton energy is $h\nu = av_a|k|$ (k is the wave vector, v_a is speed of graviton) and its gravitation momentum is \underline{ak} .

The gravitational field equation is:

$$g = -\nabla\psi - \frac{\partial D}{\partial t}$$

ψ - scalar potential of gravitational field

D - vector potential of gravitational field

The field equations contain only derivatives of the field. Their plane wave solution has the form:

$$\Psi = \text{Re} \left\{ D e^{i(kx - \omega t)} \right\}$$

where:

k – wave vector related to the frequency ω

The momentum operator:

$$\hat{p}_x = -i\hbar \frac{\partial}{\partial x}$$

$$\hat{p} = -i\hbar \nabla$$

The Energy operator:

$$\hat{E} = i\hbar \frac{\partial}{\partial t}$$

Ferent wave equation of the graviton:

$$i\hbar \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Ψ – the wave function of the graviton

Time-independent Ferent equation:

$$\hat{H} |\Psi\rangle = E |\Psi\rangle$$

Interactions of gravitational fields with matter

Coupling of the quantized gravitational field to nonrelativistic charges is considered.

The interaction is to modify the four-momentum of the particle of mass m :

The momentum p becomes $p - \frac{m}{v_a} D$

The energy E becomes $E - mA$

Where A is the scalar gravitational potential and D is the vector gravitational potential.

The energy operator is $E = i\hbar \frac{\partial}{\partial t}$ and the momentum operator is $p = -i\hbar \nabla$.

Schrödinger equation:

$$\left[\frac{p^2}{2m} + V(r) \right] \Psi(r,t) = i\hbar \frac{\partial}{\partial t} \Psi(r,t)$$

The interaction with the gravitational field:

$$\left[\frac{(p - \frac{m}{v_a} D)^2}{2m} + V(r) + mA \right] \Psi(r,t) = i\hbar \frac{\partial}{\partial t} \Psi(r,t)$$

Then the Hamiltonian:

$$H = \left[\frac{(p - \frac{m}{v_a} D)^2}{2m} + V(r) + mA \right]$$

Fermi's golden rule is a simple formula for the constant transition rate (probability of transition per unit time) from one energy eigenstate of a quantum system into other energy eigenstates in a continuum, affected by a perturbation.

$$\omega_{I \rightarrow F} = \frac{2\pi}{\hbar} \left| \langle \Psi_F | H_1 | \Psi_I \rangle \right|^2 \rho$$

In first order time-dependent perturbation theory, if an effective potential that is acting is $V(t) = V_0 e^{-i\omega t} + V_0^\dagger e^{+i\omega t}$, the transition amplitude according to the Born approximation is:

$$\langle f | U(t_0) | i \rangle = \frac{-i}{\hbar} \int_0^t d\tau e^{i\omega_{fi}\tau} \langle f | V(\tau) | i \rangle$$

The absorption of a graviton and the emission of a graviton:

The frequency depends on the difference in energy of the initial and final states of the matter.

$$\omega_{fi} = \frac{E_f - E_i}{\hbar}$$

Ferent function for the absorption of a graviton:

$$\int_0^t d\tau e^{i\frac{E_f - E_i}{\underline{a}}\tau} e^{-i\omega_k \tau} = \frac{e^{i(\frac{E_f - E_i}{\underline{a}} - \omega_k)t} - 1}{i(\frac{E_f - E_i}{\underline{a}} - \omega_k)}$$

Ferent function for the emission of a graviton:

$$\int_0^t d\tau e^{i\frac{E_f - E_i}{\underline{a}}\tau} e^{+i\omega_k \tau} = \frac{e^{i(\frac{E_f - E_i}{\underline{a}} + \omega_k)t} - 1}{i(\frac{E_f - E_i}{\underline{a}} + \omega_k)}$$

Graviton energy

The harmonic oscillator Hamiltonian has the form:

$$H = \hbar\omega(a^\dagger a + \frac{1}{2})$$

$\omega \equiv 2\pi\nu$ is the fundamental frequency of the oscillator. The ground state of the oscillator is $|0\rangle$ and is referred to as vacuum state. It can be shown that a^\dagger is a creation operator, it excites from an n fold excited state to an $n+1$ fold excited state:

$$a^\dagger|n\rangle = |n+1\rangle\sqrt{n+1}$$

The annihilation operator:

$$a|n\rangle = |n-1\rangle\sqrt{n}$$

We have a number of non-interacting one-dimensional harmonic oscillators:

$$H = \sum_i \hbar\omega_i (a^\dagger(i)a(i) + \frac{1}{2})$$

With the substitution:

$$i \rightarrow (k, \mu)$$

The Hamiltonian of the Gravitational field can be looked upon as a Hamiltonian of independent oscillators of energy $\omega = |k|v_a$ and oscillating along direction e^μ

$$H = \sum_{k,\mu} \underline{a}\omega(a^{\dagger(\mu)}(k)a^{(\mu)}(k) + \frac{1}{2})$$

The effect of H on a single graviton state $H|k, \mu\rangle$

$$H(a^{\dagger(\mu)}(k)|0\rangle) = \underline{a}\omega(a^{\dagger(\mu)}(k)|0\rangle) = \underline{a}\omega|k, \mu\rangle$$

The single graviton state is an eigenstate of H and the corresponding energy is $\underline{a}\omega$.

Particle and graviton interaction as tensor product

A tensor product of two Hilbert spaces is another Hilbert space.

Hilbert spaces have inner products:

If H_1 and H_2 have orthonormal bases $\{a_i\}$ and $\{b_j\}$, then $\{a_i \otimes b_j\}$ is an orthonormal basis for $H_1 \otimes H_2$. The Hilbert dimension of the tensor product is the product of the Hilbert dimensions.

In Quantum Mechanics, a tensor product is used to describe a system that is made up of multiple subsystems.

We have two systems, the particle system P and the graviton system G with Hilbert spaces H_P^N and H_G^M .

The independent quantum numbers which describe the values of conserved quantities in the dynamics of a quantum system, required to specify completely a state, give you the number of subspace products.

The numbers of possible values each quantum number can have provide the dimension of each subspace.

For the particle system P and the graviton system G, with Hilbert spaces H_P^N and H_G^M with orthonormal bases vectors i and j , where i runs from 1 to N and j from 1 to M .

The tensor product $H_P^N \otimes H_G^M$ is the NM dimensional Hilbert space spanned by the vector pairs.

We have two wavefunctions:

If system P is in state:

$$\varphi_P = \sum_{i=1}^N a_i |i\rangle$$

System G is in state:

$$\varphi_G = \sum_{j=1}^M b_j |j\rangle$$

Then the combined system is in the state represented by the tensor product for the two wavefunctions:

$$|\varphi_P, \varphi_G\rangle = |\varphi_P\rangle \otimes |\varphi_G\rangle$$

$$\varphi_P \otimes \varphi_G = \sum_{i=1}^N \sum_{j=1}^M a_i b_j |i, j\rangle$$

This means all states in a tensor-product space can be expressed as a linear combination of tensor product states:

$$|\varphi_{PG}\rangle = \sum_{i=1}^N \sum_{j=1}^M c_{ij} |i, j\rangle$$

How do we construct operators that act on the vector space $H_P^N \otimes H_G^M$?
Let T be an operator in H_P^N and S be an operator in H_G^M .

$$(T \otimes S)(|\varphi_P\rangle \otimes |\varphi_G\rangle) = T|\varphi_P\rangle \otimes S|\varphi_G\rangle$$

Gravitation explained

All physicists, mathematicians, engineers...were not capable to explain the Gravitation.

All physicists, mathematicians, engineers...were thinking that photons oscilatte forever, light, photons are perpetual motion machines, are in perpetual motion.

From Newton, Maxwell, Einstein...you learned that light, photons are perpetual motion machines, are in perpetual motion.

It is what you learned from your professors, from science books, from science articles...

“The force of Gravitation is mediated by Gravitons, with negative energy and negative impulse.”

Adrian Ferent

No system operating in a cycle can be absolutely efficient.

My Gravitation theory explains that photons are not perpetual motion machines, they not oscillate forever.

“To oscillate photons need energy, that is why they emit Gravitons with negative energy and negative impulse.”

Adrian Ferent

“My Nobel Prize - Discovery: the Photon – Graviton pair (coupled) has the same speed and frequency, and the photon energy divided by the graviton energy, is the electromagnetic energy divided by the gravitational energy, the electromagnetic force divided by the gravitational force”

That is why the energy of the photon:

“Ferent equation for the energy of a photon $E = h \times f + a \times f$ ”

Adrian Ferent

$E = h \times f + a \times f - a \times f$ and the negative energy $- a \times f$ is emitted is the Graviton energy.

That is why the photon – graviton interaction:

“Ferent equation for photon – graviton interaction: $E = h \times f + a \times f - a \times v$ ”

Adrian Ferent

Gravitons helped me to understand matter, the electrons:

Nobody knows what is inside the electrons.

Electrons have mass, have Gravitation, they emit Gravitons. This means there are oscillations inside the electrons. Not Strings from String theory in 10 dimensions.

“To understand physics, the Universe, we must understand Gravitation”

Adrian Ferent

Some physicists say that we can travel through a black hole!

The matter inside the black hole is dark matter with huge density and very small volume.

This means we can not travel through a molecule.

“The majority of Dark matter is the core of supermassive black holes”

Adrian Ferent

We can not travel through a black hole, because the gravitons with high energy will shred us instantly.

Because Einstein gravitation theory does not contain gravitons the physicists can travel through a black hole. That is why Einstein gravitation theory is wrong; Einstein and the rest of the physicists did not understand what means Gravitation.

“When you do not understand physics, you can travel anywhere.”

Adrian Ferent

In my view the most important properties of the Gravitons:

Gravitons help photons (and all the particles) to oscillate.

Gravitons collapse matter, bring everything together.

Gravitons transfer energy, transfer mass. The Higgs boson is not involved.

Because of these properties the Graviton is the most important particle, is the God particle; not the Higgs boson.

Until now we know that the graviton is massless, because the gravitational force has unlimited range, has only relativistic mass and must be spin $s = 2$.

The spin angular momentum of the graviton S :

$$S = \frac{a}{2\pi} \sqrt{s(s+1)}$$

Subuniverses

Multiverse represents multiple domains in the universe with different properties.

Fundamental theories allow parameters to take on different values and perhaps these different values can be realized differently in various domains of the universe. This would be the multiverse solution, a universe that contains more subuniverses.

Fundamental physical constants are subject to measurement so that their being constant, independent on both the time and space of the measurement. The number of fundamental physical constants depends on the physical theory accepted as fundamental.

If one considers Grand Unified Theories (GUT) with more complicated scalar potentials, such theories most often contain multiple ground states, again with greatly different properties; this means we can have multiverse. Here multiverse means multiple subuniverses, means multiple contiguous domains within a larger universe, each with different properties such as different values of the physical parameters and different gauge structures.

Our subuniverse is an island where the parameters, the space have enough complexity, to lead to a fascinating world, with forms of life.

Our subuniverse is the Planck universe.

My gravitation theory explains what happened at Ferent wall and after the expansion of the Universe attains the Ferent wall.

Two important walls:

The Ferent wall: here at time $t_F = 1.294 \times 10^{-86}$ s were created Ferent matter with Ferent density $\rho_F = 8.94 \times 10^{181}$ kg/m³ and gravitons with the speed of the gravitons $v_a = 1.001762 \times 10^{17}$ m/s.

The Planck wall: here at time $t_P = 5.391 \times 10^{-44}$ s were created matter with Planck density $\rho_P = 5.155 \times 10^{96}$ kg/m³ and photons, with the speed of the photons $c = 2.997924 \times 10^8$ m/s.

At Ferent wall:

here at Ferent time $t_F = 1.294 \times 10^{-86}$ s, with Ferent length $l_F = 1.296 \times 10^{-69}$ m started Ferent universe.

At Planck wall

here at Planck time $t_P = 5.391 \times 10^{-44}$ s, with Planck length, $l_P = 1.616199 \times 10^{-35}$ m started Planck universe.

It is an oscillation Big Bang and Big Crunch.

Because there are 3 walls, there are 3 subuniverses: God universe, Ferent universe and Planck universe.

Our Universe may contain more then 3 subuniverses.

“Only with Ferent matter (dark matter) is possible the oscillation Big Bang and Big Crunch”

Adrian Ferent

“It is not possible to have a Big Bounce from the Planck scale”

Adrian Ferent

When the density of matter inside the black hole (that contain only matter) reaches the Planck density, would generate radiation, gamma rays and will be the end of black hole. This means black holes made of matter, not dark matter, will not reach a density higher than Planck density.

Quantum gravitational effects prevent the universe from collapsing to infinite density. Instead, the universe “bounces” when the energy density of matter reaches the Planck scale.

Big Crunch is when the metric expansion of space eventually reverses and the universe recollapses, ultimately ending as a black hole singularity or causing a reformation of the universe starting with another Big Bang.

The universe will collapse to the state where it began and then initiate another Big Bang so in this way the universe would last forever, but would pass through phases of expansion, the Big Bang and contraction the Big Crunch.

Should the universe end in a big crunch the opposite of a big bang?

The “bounce” of the universe happens only when the matter reaches the Ferent density.

Wrong picture of Universe

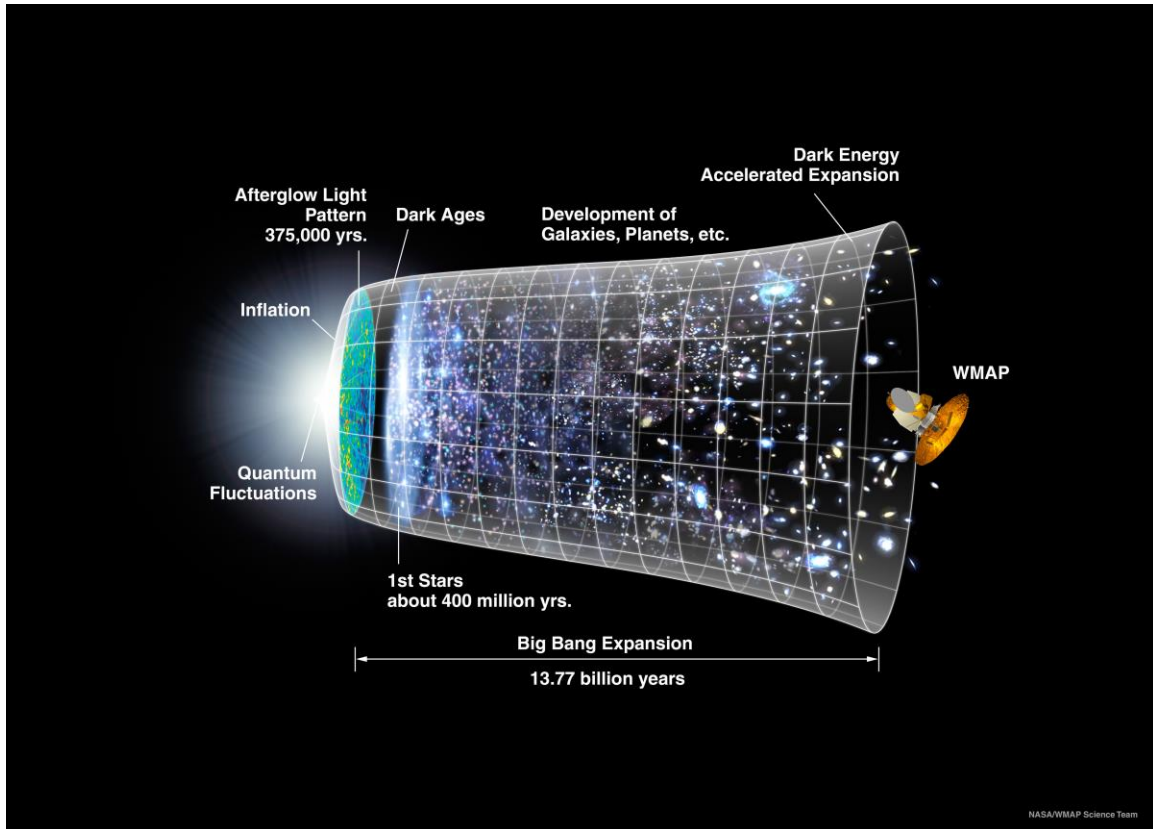
Big Bang near the beginning involves extreme conditions that neither relativity nor quantum theory can explain on its own.

In inflationary models, once inflation happens, it never stops and produces not just one universe, but a number of universes.

The Standard Model with the measured values for the parameters has a unique ground state.

The multiverse means the existence of many universes with different physical constants.

This is the wrong picture of the Universe because doesn't shows Planck universe and Ferent universe.



God

At Soul wall started God universe.

Soul constants, at Soul wall:

Soul constant: $a_s = 1.92762 \times 10^{-133} \text{ J}\cdot\text{s}$

Soul length: $l_s = 6.82301 \times 10^{-140} \text{ m}$

Soul time: $t_s = 8.44687 \times 10^{-174} \text{ s}$

Speed of soultons: $v_s = 8.077343 \times 10^{33} \text{ m/s}$

The energy of a soulton: $E = a_s \times f$

This means we have 3 walls: Planck wall, Ferent wall and Soul wall.

“Because there are 3 walls, there are 3 subuniverses: God universe, Ferent universe and Planck universe”

Adrian Ferent

“God is eternal, because is beyond the Big Bang and Big Crunch oscillation between Ferent universe and Planck universe”

Adrian Ferent

This means:

“God is the same for all galaxies”

Adrian Ferent

Photon – Graviton interaction

Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

where - $a \times v$ is the negative energy of the graviton
 v is the frequency of the graviton

The gravitons give a negative momentum to particles to attract them!

“ $E = h \times f + a \times f$ is the photon energy”

Adrian Ferent

“I am the first who understood and explained the Gravitation with high speed gravitons
 $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

Gravitational lensing and Gravitational redshift

Gravitational lensing: the light from an object on the other side of a massive object will be bent towards an observer, just like an ordinary lens. When light passes around a massive object it is bent.

Einstein explanation of gravitational lensing: the photon follows the curvature of spacetime, hence when photon passes around a galaxy, the light is bent; in my view this is wrong explanation and does not explain gravitational redshift!

“The momentum of the graviton is negative $p = - m \times v$ ”

Adrian Ferent

The photon momentum:

$$p = h / \lambda$$

The graviton momentum:

$$p = a / \lambda$$

Momentum is a vector:

$$P = p_i + \sum_{k=1}^n p_k$$

“Because the momentum of each graviton p_k is negative, the final momentum of a photon p is smaller than the initial momentum p_i and the photon will move towards the source of gravitons for example a galaxy.”

Adrian Ferent

This is my explanation of gravitational lensing.

If I take in consideration the gravitons p_e emitted by the photon, the equation will be:

$$p = p_i + \sum_{k=1}^n p_k + \sum_{e=1}^n p_e$$

The momentum of gravitons p_e emitted by the photon, it is smaller than the momentum p_k of the gravitons received by photon from a galaxy.

That is why the photon will move towards the galaxy and this is Gravitational lensing.

The decrease in photon's momentum must be explained as increase in wavelength $\Delta\lambda = \lambda' - \lambda$.

Gravitational redshift during Gravitational lensing:

Gravitational redshift during gravitational lensing: because the energy of each graviton is negative and the energy of the photon after n interactions with n gravitons is smaller, this means the frequency of the photon will be smaller.

Einstein Gravitation theory fails to explain Gravitational redshift: when a photon passes around a galaxy a part of their energy is lost in overcoming gravitational attraction of a galaxy. The photon with reduced energy leave behind the galaxy and photon's reduced energy translates into lower frequency or red shift.

My explanation of Gravitational redshift: the energy E of a photon is smaller after each photon-graviton interaction, this means the frequency is smaller and this explains the gravitational redshift.

After n photon-graviton interactions, the energy of the photon E :

$$E = E_i + \sum_{k=1}^n E_k$$

“Because the energy of the gravitons E_k is negative, the energy of the photon E after n interactions with gravitons it is smaller than the initial energy of the photon E_i .”

Adrian Ferent

Photon energy:

$$E = hf$$

Smaller energy of the photon means smaller frequency and this explains gravitational redshift during gravitational lensing.

If I take in consideration the energy of the gravitons E_e emitted by the photon, the equation will be:

$$E = E_i + \sum_{k=1}^n E_k - \sum_{e=1}^n E_e$$

The energy of gravitons E_e emitted by the photon, it is smaller than the energy E_k of the gravitons received by photon from a galaxy.

This means the energy of the photon E after n interactions with gravitons, is smaller than the initial energy of the photon E_i . Smaller energy of the photon means smaller frequency and this explains gravitational redshift during gravitational lensing.

Gravitation: I see Gravitons, Einstein saw geometry!

Einstein theory of gravitation is wrong because fails to explain Gravitational lensing and Gravitational redshift during Gravitational lensing.

Gravitational redshift

Redshift happens when electromagnetic radiation from an object is increased in wavelength or shifted to the red end of the spectrum.

If the energy of the photon decreases the frequency also decreases.

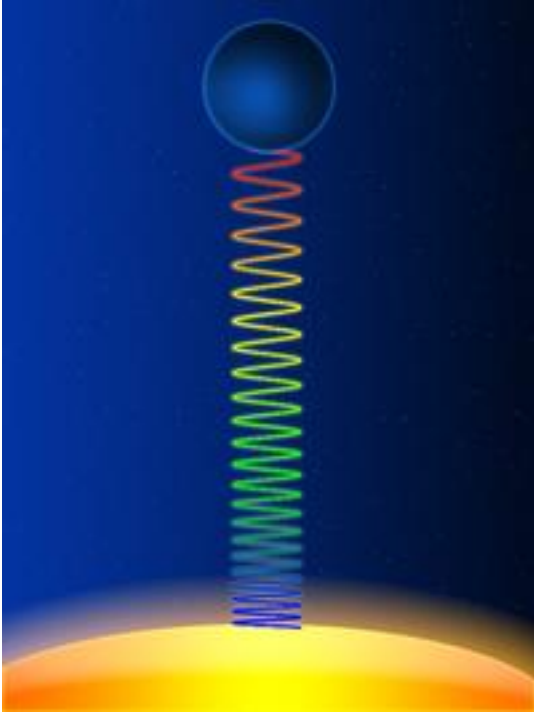
Gravitational redshift is a relativistic effect observed in electromagnetic radiation moving out of gravitational fields.

As an object approaches the event horizon of a black hole the red shift becomes infinite.

Redshifts have also been used to make the first measurements in astrophysics and space science of the rotation rates of planets, the rotation of galaxies and the dynamics of accretion onto neutron stars and black holes... which show gravitational redshifts.

Picture:

The gravitational redshift of a light wave is the increased in wavelength, is the change in the color of visible light, shifted toward the red part of the light spectrum as it moves upwards against a gravitational field created by the yellow star below.



The gravitational redshift

While gravitational redshift refers to what is seen, gravitational time dilation refers to what is deduced to be "really" happening once observational effects are taken into account.

Gravitational time dilation is the difference of elapsed time between two events as measured by observers situated at varying distances from a gravitating mass. The weaker the gravitational potential, the farther the clock is from the source of gravitation the faster time passes. The atomic clocks at different altitudes with different gravitational potentials will show different times.

Gravitational time dilation has been experimentally measured using atomic clocks on airplanes and the clocks aboard the airplanes were slightly faster than clocks on the ground. That is why the Global Positioning System's artificial satellites need to have their clocks corrected.

“All the physicists, mathematicians, engineers...where not capable to explain the gravitational redshift” Adrian Ferent

The only “scientific” explanation of gravitational redshift: a particle of light (photon) moves out of a gravitational field, it must loose energy “working” against the gravitational field.

The primitive explanation what you studied at university: photons must loose energy “working” against the gravitational field.

Not only people are working, but the particles are working too!

“I am the first who explained the gravitational redshift”

Adrian Ferent

Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

where $- a \times v$ is the negative energy of the graviton
 v is the frequency of the interaction graviton

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k - v_k)$$

Where f is the initial frequency of the photon.

Because $v_k > f_k$ the energy E of the photon is smaller after each photon-graviton interaction, this means the frequency is smaller and this explains the gravitational redshift.

This is another proof that my Gravitation theory is right.

Only my Gravitation theory explains the gravitational redshift.

Newton’s third law is wrong

“Newton and Einstein did not understand Gravitation, they calculated Gravitation”

Adrian Ferent

Newton like Einstein was deeply uncomfortable with the notion of "action at a distance". In 1692, in his third letter to Bentley, he wrote: "That one body may act upon another at a distance through a vacuum without the mediation of anything else, by and through which their action and force may be conveyed from one another, is to me so great an absurdity that, I believe, no man who has in philosophic matters a competent faculty of thinking could ever fall into it."

“To understand physics, the Universe, we must understand Gravitation”

Adrian Ferent

Newton's laws of motion:

Newton’s laws first appeared in 1687, in his masterwork, *Philosophiae Naturalis Principia Mathematica*.

The motion of a body can be explained and described by physical principals discovered over 300 years ago by Newton.

First law: in an inertial reference frame, every object will remain at rest or continues to move at a constant velocity, unless compelled to change its state by the action of an external force.

Second law: explains that in an inertial reference frame how the velocity of an object changes when it is subjected to an external force.

The acceleration of an object as produced by a force (the vector sum of all the forces) is directly proportional to the magnitude of that force and inversely proportional to the mass of the object: $F = ma$

Third law: For every action (force), there is an equal and opposite reaction.

For example one body exerts a force on a second body, simultaneously, at the same time, the second body exerts a force equal in magnitude and opposite in direction on the first body.

This means that for every force there is a reaction force that is equal in size, but opposite in direction.

The third law is also known as the law of action and reaction.

In the last 300 years you learned from your professors that these laws of motion are right.

Newton's law of universal gravitation:

The force between two objects is proportional to the product of their masses and also inversely proportional to the square of the separation of their centers of mass.

Newton's law of universal gravitation can be written as a vector equation; the direction of the gravitational force as well as its magnitude:

$$F_{12} = -G \frac{m_1 m_2 \hat{r}_{12}}{|r_{12}|^2}$$

F_{12} is the force applied on object 1 due to object 2, exerted by object 2

F_{21} is the force applied on object 2 due to object 1, exerted by object 1

By Newton's third law:

$$F_{12} = -F_{21}.$$

1. Why Newton's third law is wrong?

For example the interaction between a black hole and a planet, or a star:

“The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole. Because the energy of the gravitons emitted by the black hole is much higher than the energy of the gravitons emitted by the planet”

Adrian Ferent

This means Newton's third law is wrong:

$$F_{12} \neq -F_{21}$$

The energy of a graviton $E = a \times f$

2. Why Newton's third law is wrong?

The reaction is not simultaneously because the gravitons, which mediate the gravitational force, have a finite speed, not an infinite speed.

This is another proof that my Gravitation theory is right.

Only my Gravitation theory explains that Newton's third law is wrong!

Black holes are Ferent matter

I explained why black holes are Ferent matter!

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

“Because the electromagnetic waves, the photons, can not escape from a black hole, this means the gravitons momentum emitted by the black hole is higher than the momentum of the photons”

Adrian Ferent

Graviton momentum > Photon momentum

Gamma rays represent the high-energy end of the electromagnetic spectrum.

I considered gamma rays with the frequency:

$$f = 300 \text{ EHz} = 3 \times 10^{20} \text{ Hz}$$

Photon momentum:

$$p = hf / c$$

Planck constant $h = 6.62606957 \times 10^{-34} \text{ J}\cdot\text{s}$

Speed of light $c = 2.9979 \times 10^8 \text{ m/s}$

Graviton momentum:

$$p = a v / v_a$$

Ferent constant $a = 1.590511178 \times 10^{-76} \text{ J}\cdot\text{s}$

Speed of gravitons: $v_a = 1.0017620 \times 10^{17} \text{ m/s}$

Graviton momentum > Photon momentum

$$a v / v_a > hf / c$$

$$v > hf v_a / (ac)$$

$$h\nu_a / (ac) = 6.62606957 \times 10^{-34} \times 1.0017620 \times 10^{17} / (1.590511178 \times 10^{-76} \times 2.9979 \times 10^8)$$

$$h\nu_a / (ac) = 1.392 \times 10^{51}$$

$$\nu > 1.392 \times 10^{51} \times f$$

This means, for $f = 3 \times 10^{20}$ Hz, gravitons frequency emitted by black holes must be:

$$\nu > 4.176 \times 10^{71} \text{ Hz}$$

This frequency is close to Ferent wall frequency and it is much higher than Planck frequency:

Ferent frequency at Ferent wall:

$$f_F = 7.728 \times 10^{85} \text{ Hz}$$

Gravitons with the frequency $\nu > 4.176 \times 10^{71}$ Hz are emitted by matter with the density much higher than the Planck density, these gravitons are emitted by Ferent matter.

This means:

“Black holes are Ferent matter”

Adrian Ferent

Einstein: Gravitation is acceleration and geometry, no gravitons.

Ferent: Gravitation is a force mediated by gravitons.

You learned from your professors: In the centre of a black hole is a gravitational singularity where all laws of physics break down and without gravitons.

“Because the electromagnetic waves, the photons, can escape from a planet, this means the gravitons momentum emitted by a planet is smaller than the momentum of the photons”

Adrian Ferent

Because the electromagnetic waves, the photons, can escape from a planet, I calculated the frequency of the gravitons emitted by a planet, by Earth:

In this case, radio waves with the frequency 300 kHz:

$$\begin{aligned} &: \\ &\text{Graviton momentum} < \text{Photon momentum} \end{aligned}$$

$$\nu < 1.392 \times 10^{51} \times f$$

For $f = 300$ kHz

$$\nu < 4.176 \times 10^{56} \text{ Hz}$$

Gravitons frequency emitted by a planet, by Earth:

$$\nu < 4.176 \times 10^{56} \text{ Hz}$$

This means:

This is the proof that Newton's third law is wrong:

The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole.

Graviton energy:

$$E = a \nu$$

The proof:

The energy of the gravitons emitted by a black hole, the frequency of the gravitons emitted by a black hole $\nu > 4.176 \times 10^{71}$ Hz, is much higher than the energy of the gravitons emitted by a planet, than the frequency of the gravitons emitted by a planet $\nu < 4.176 \times 10^{56}$ Hz.

This is another proof that my Gravitation theory is right.

Gravitation stronger than Strong nuclear force; Gravitons stronger than Gluons

“Black holes are Ferent matter”

Adrian Ferent

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

You learned from your professors that the strong force is 137 times stronger than electromagnetism, a million times stronger than the weak interaction and 10^{41} times stronger than gravitation.

This means Gravitation is the weakest force in nature.

We know that the strong interaction is mediated by the exchange of massless particles called gluons.

Gluons interact with quarks and other gluons, by way of a type of charge called color charge.

The proton's total mass is about 938.3 MeV; the sum of the rest masses of the three quarks is approximately 9.4 MeV. This means the energy of the gluons inside the proton is ~1GeV.

If my Gravitation theory is right, the energy of the gravitons inside the black holes must be much higher than the energy of the gluons, 1GeV. Because inside the black holes, Gravitation must crushes all the Hadrons, due to Gravitational collapse.

Graviton momentum > Photon momentum

“Because the electromagnetic waves, the photons, can not escape from a black hole, this means the gravitons momentum emitted by the black hole is higher than the momentum of the photons”

Adrian Ferent

I considered gamma rays with the frequency:

$$f = 300 \text{ EHz} = 3 \times 10^{20} \text{ Hz}$$

This means, the gravitons frequency emitted by black holes must be:

$$\nu > 4.176 \times 10^{71} \text{ Hz}$$

The energy of this graviton must be much higher than the energy of the gluons $\sim 1\text{GeV}$, if my theory is right.

The graviton energy:

$$E = \hbar \nu$$

$$E = 1.590511178 \times 10^{-76} \times 4.176 \times 10^{71} = 6.641974 \times 10^{-5} \text{ J.}$$

$$1\text{eV} = 1.602176 \times 10^{-19} \text{ J.}$$

$$E = 4.14559 \times 10^{14} \text{ eV;}$$

$$E = 4.14559 \times 10^5 \text{ GeV}$$

The energy of the gravitons inside a black hole is higher than: $4.14559 \times 10^5 \text{ GeV}$

“The energy of the gravitons inside a black hole, is much higher than the energy of the gluons”

Adrian Ferent

This means, this is the proof that:

“Inside the black holes, Gravitation is much stronger than the Strong nuclear force”

Adrian Ferent

This is another proof that my Gravitation theory is right.

“Ferent Gravitation theory explains the Universe at Galaxies level and at the Quantum level, explains black holes”

Adrian Ferent

Elementary particles emit and receive Gravitons

The main question in physics:

How to understand Gravity in the frame of quantum mechanics?

Elementary particles wave/particle duality:

All elementary particles are localized vibrations in their respective quantum fields, which propagate as waves.

Elementary particles emit a graviton:

$$(\widehat{H} + \widehat{H}_g) |\Psi\rangle = E |\Psi\rangle$$

Where \widehat{H}_g is graviton Hamiltonian.

Elementary particles receive a graviton:

$$(\widehat{H} - \widehat{H}_g) |\Psi\rangle = E |\Psi\rangle$$

“Elementary particles emit and receive gravitons because Gravity emerged at Ferent wall before the Planck wall; because elementary particles interact via the force of gravity.”

Adrian Ferent

The conservation law states that particular measurable properties of an isolated physical system like energy and linear momentum do not change as the system evolves in time.

“When a graviton is generated, it is generated the same energy and momentum, but with opposite sign which is received by the elementary particle”

Adrian Ferent

That is why:

Ferent equation for photon:

$$E = h \times f + a \times f$$

I discovered the equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

Photons similar to all quantum objects, exhibit wave-like properties and particle-like properties.

Conservation of energy and linear momentum when Elementary particles emit a graviton: “The conservation law of energy states that the total energy of an elementary particle remains constant.

$$a \times f - a \times f = 0$$

The conservation law of momentum states that the total momentum of an elementary particle remains constant.

$$a / \lambda - a / \lambda = 0$$

This means the total energy and the total momentum are constant.”

Adrian Ferent

“The photon has Electric field, Magnetic field and Gravitational field components. Similarly Elementary particles have Gravitational field component.”

Adrian Ferent

“I discovered how to understand Gravity in the frame of quantum mechanics!”

Adrian Ferent

“Elementary particles emit and receive Gravitons!”

Adrian Ferent

Einstein bent the time, Ferent unbent the time

I explained Gravitational time dilation!

Einstein’s geometric gravity is not a force like in Newton’s theory, but a consequence of the distortion of space and time.

The planets orbiting the Sun are not being pulled by the Sun; they follow the curved space-time deformation caused by the Sun.

Gravitational time dilation occurs when observers travel near an object through space-time and they measure that more time has elapsed between a given pair of events than has elapsed on a clock held by an observer further away from that object.

The closeness of mass-energy slows time and contracts space; this means curves more the space-time.

Gravitational time dilation, in the case of a non-rotating spherically objects:

$$t_0 = t_f \sqrt{1 - \frac{2GM}{rc^2}}$$

$$t_0 = t_f \sqrt{1 - \frac{r_s}{r}}$$

where:

t_0 - is the time for slow-ticking observer, for an observer within the gravitational field

t_f - is the time for fast-ticking observer, far from the object which creates the gravitational field

M - is the mass of the object creating the gravitational field

r_s – is the Schwarzschild radius radius of the mass M

Conclusions from Einstein’s Gravitation theory:

- 1) Time stops at the surface of a black hole, at r_s
- 2) Escape velocity from the surface of a black hole is c .
- 3) Time stops at speed c .

In my Gravitation theory, time does not stop at the surface of a black hole, at r_s and time does not stop at speed c .

Gravitational field is a field of force surrounding a body of finite mass.
Gravitational flux is proportional to the number of gravitational field lines going through a normally perpendicular surface.

“Gravitational flux is proportional to the number of gravitons going through a normally perpendicular surface.”

Adrian Ferent

The gravitational flux over a surface S is therefore given by the surface integral:

$$\Phi_G = \iint_S g dS$$

“Gravitational field strength is smaller at higher altitude, because the flux of gravitons to the same surface is smaller at higher altitude, this means fewer interactions.”

Adrian Ferent

“Interactions in my Gravitation theory, curvature in Einstein Gravitation theory”

Adrian Ferent

Because of fewer interactions with gravitons clocks that are far from massive bodies run more quickly and clocks close to massive bodies run more slowly.

For example considered over the total lifetime of Earth, a clock set at the peak of Mount Everest run more quickly and would be about 40 hours ahead of a clock set at sea level(at Earth radius).

“Scientists are more rigorous to indoctrinate people, than clerics.

Clerics need a thousand years to indoctrinate population with a new religion, scientists needed one hundred years to indoctrinate the whole world with Einstein's Gravitation theory, a wrong theory.”

Adrian Ferent

All Gravitation theories based on Einstein gravitation theory are wrong, from example the String theory.

“Einstein bent the space, Ferent unbent the space”

Adrian Ferent

“Einstein bent the time, Ferent unbent the time”

Adrian Ferent

The Earth attracts with greater force the Moon, than the Moon attracts the Earth

I discovered that the Earth attracts with greater force the Moon, than the Moon attracts the Earth!

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

Adrian Ferent

Gravitons are to gravitational waves in my Gravitation theory the theoretical analogue of photons for electromagnetic waves.

Gravitons are the carriers of the gravitational interactions at quantum level in my theory of quantized gravity.

Before you begin to study wrong theories in physics and mathematics like Newton’s gravitation theory, Einstein’s gravitation theory, String theory, LQG...:

“Think more and Study less”

Adrian Ferent

In Einstein's theory of general relativity, gravitation is an attribute of curved space-time instead of being due to a force propagated between bodies.

“In the last 100 years nobody discovered 1 meter of curved space”

Adrian Ferent

People received a lot of information about Solar eclipses, but not much information about the Gravitational forces between the Earth and the Moon.

The Gravitational forces of the Earth and Moon on each other are NOT equals!

The Earth and the Moon are attracted to each other by gravitational force. Does the Earth attract the Moon with a force that is greater or smaller or the same as the force with which the Moon attracts the Earth?

You learned from your professors and your books:

According to the universal law of gravitation, two objects attract each other with equal force, but in opposite directions.

Newton's third Law of Motion: the law of Action and Reaction, if the Earth exerts a force on the Moon, the Moon must exert an equal and opposite force on the Earth.

This means the Earth attracts the Moon with an equal force with which the Moon attracts the Earth.

The force the Earth exerts on the Moon is numerically identical to the force the Moon exerts on the Earth.

Newton's law of universal gravitation can be written as a vector equation; the direction of the gravitational force as well as its magnitude:

$$F_{12} = -G \frac{m_1 m_2 \hat{r}_{12}}{|r_{12}|^2}$$

F_{12} is the force applied on object 1 due to object 2, exerted by object 2
 F_{21} is the force applied on object 2 due to object 1, exerted by object 1

By Newton's third law:
 $F_{12} = -F_{21}$.

If m_1 is Earth's mass and m_2 is Moon mass:

$$F_{12} = 1.982 \times 10^{20} \text{ N}$$

I explained before:

“The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole. Because the energy of the gravitons emitted by the black hole is much higher than the energy of the gravitons emitted by the planet”

Adrian Ferent

This means Newton's third law is wrong:
 $F_{12} \neq -F_{21}$

“Newton's third law is wrong”

Adrian Ferent

From my Gravitation theory:

“The Earth attracts with greater force the Moon, than the Moon attracts the Earth”

Adrian Ferent

“Gravitational flux density is the amount of flux passing through a defined area that is perpendicular to the direction of the flux.”

Adrian Ferent

But flux density decreases with distance according to the inverse-square law.

Because of the big distance between Earth and Moon, not all the gravitons emitted by the Moon will reach the Earth

“The flux density of gravitons emitted by the Earth is bigger than the flux density of gravitons emitted by the Moon.”

Adrian Ferent

This means more gravitons will arrive from the Earth to the Moon than to the Moon to the Earth.

Because the density of Earth is greater than Moon density and the Earth radius is greater than Moon radius.

This means Newton's third law is wrong and:

“The Earth attracts with greater force the Moon, than the Moon attracts the Earth”

Adrian Ferent

The most important Nobel Prize, for gravitational waves detection, the biggest fraud in science

“Gravitational waves are carried by gravitons”

Adrian Ferent

“The Gravitational waves have their energy contained in gravitons”

Adrian Ferent

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

Adrian Ferent

Gravitons are to gravitational waves in my Gravitation theory the theoretical analogue of photons for electromagnetic waves.

Gravitons are the carriers of the gravitational interactions at quantum level in my theory of quantized gravity.

Einstein did not receive the Nobel Prize for his wrong gravitation theory, but they received the Nobel Prize for the gravitational waves, predicted by Einstein's wrong theory.

Einstein did not understand quantum gravity.

Ferent quantum gravity theory is the right gravitation theory.

For Einstein, Gravitational waves are ripples in the curvature of spacetime that propagate as waves with the speed of light.

“Einstein's gravitational waves do not exist, how they can detect them?”

Adrian Ferent

“Einstein Gravitation theory is wrong because Einstein field equations are wrong.

Einstein Gravitation theory is wrong because mass does not bend space.

Einstein Gravitation theory is wrong because Gravitational waves are NOT ripples in the curvature of spacetime that propagate as waves with the speed of light.

Einstein Gravitation theory is wrong because Einstein equivalence principle is wrong.

Einstein Gravitation theory is wrong because is limited to the speed of light.

Because Einstein Gravitation theory is wrong, these pictures are wrong!

All physicists did not understand Gravitation; they followed Einstein Gravitation theory in the last 100 years.

Physicists discovered wrong theories like String theory, LQG...they tried to unify the forces of nature with Einstein Gravitation theory, a wrong theory.”

Adrian Ferent

“Einstein bent the time, Ferent unbent the time”

Adrian Ferent

“Einstein bent the space, Ferent unbent the space”

Adrian Ferent

“In the last 100 years nobody discovered 1 meter of curved space”

Adrian Ferent

Gravitational waves are ripples in the fabric of space-time; for years physicists tried to find ways to discover ripples in the fabric of space-time.

The LIGO cooperation includes more than 100 institutions and 18 countries.

One LIGO detector is in Louisiana and the other in Washington state; these detectors are laser interferometers.

They are L-shaped facilities that can shoot laser beams at mirrors located kilometers away from the central hub. Two laser beams are shot perpendicularly to each other and physicists determine whether they look the same when they return.

Because Einstein Gravitation theory is wrong, Einstein’s gravitational waves do not exist, that is why:

“LIGO is the biggest fraud in science”

Adrian Ferent

It is a Miracle!

Each time when two neutrons stars collide, under my bed without using LIGO and Virgo, I can see for a short period of time 1 million dollars.

Each time when two black holes collide, under my bed without using LIGO and Virgo, I can see for a short period of time 1 million euros.

The Gravitons are faster than light

“The Gravitons are faster than light”

Adrian Ferent

“The gravitational redshift is the proof that the gravitons are faster than light”

Adrian Ferent

Because:

“The gravitons emitted after the photons are emitted, will not interact with the photons if they have only the speed of light”

Adrian Ferent

“I am the first who explained the gravitational redshift”

Adrian Ferent

Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

where - $a \times v$ is the negative energy of the graviton
 v is the frequency of the interaction graviton

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k - v_k)$$

Where f is the initial frequency of the photon.

Because $v_k > f_k$ the energy E of the photon is smaller after each photon-graviton interaction, this means the frequency is smaller and this explains the gravitational redshift.

This is another proof that my Gravitation theory is right.

Only my Gravitation theory explains the gravitational redshift.

Another proof that the gravitons must be faster than light:

I am the first who understood and explained that gravitons with the speed of light are too slow to keep constellations together.

“If gravitons have only the speed of light will not be able to keep constellations together.”

Adrian Ferent

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

A graviton needs less than one second to travel between stars located within 10 light-years.

A light year value is $1 \text{ ly} = 9.460536207 \times 10^{15}$ m, the speed of the graviton $v_a = 1.001762 \times 10^{17}$ m/s and $t = 10 \times \text{ly} / v_a$, this means $t < 1$ s.

Another proof that the gravitons must be faster than light:

If the gravitons have only the speed of light, the light, the electromagnetic waves, the photons can escape from a black hole.

This means the gravitons must be faster than light.

You learned from your professors that nothing can travel faster than light; I explained that the gravitons are faster than light.

This is another proof that my Gravitation theory is right and Einstein Gravitation theory is wrong.

The Laser Interferometer Gravitational-Wave Observatory (LIGO) and Virgo collaborations report the fourth detection of gravitational waves; gravitational waves are perturbations of spacetime in Einstein gravitation theory, propagate at the speed of light, so their detection by Earth detectors is expected to correlate with the arrival of light from distant events assuming the source of light generation is identical to the source of the gravitational disturbance.

This is another proof that LIGO is a fraud, because gravitational waves are faster than light.

Gravitational waves carry negative energy

“Gravitational waves carry negative energy”

Adrian Ferent

“Gravitational waves are carried by gravitons”

Adrian Ferent

This means gravitational waves carry gravitational energy and momentum.

“The Gravitational waves have their energy contained in gravitons”

Adrian Ferent

“The gravitons give a negative momentum to mass-carrying particles to attract them.”

Adrian Ferent

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

Adrian Ferent

The momentum of the graviton is negative $p = -m \times v$ and I calculated the speed of the graviton v_a .

“Because the momentum is negative, the relativistic mass $-m$ of the graviton is negative!”

Adrian Ferent

“The relativistic mass m of the graviton is negative, this implies that the energy of the graviton is negative, $E = -m \times v_a^2$.”

Adrian Ferent

This means:

“Gravitation is caused by negative energy”

Adrian Ferent

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

Einstein’s gravitational waves carry positive energy.

That is why:

“Einstein’s gravitational waves do not exist, how they can detect them?”

Adrian Ferent

This is another proof that LIGO is a fraud.

The 2017 Nobel Prize in Physics has been awarded for a project, the Laser Interferometer Gravitational-wave Observatory (LIGO) not for a scientific discovery; they did not detect anything because Einstein’s gravitational waves do not exist.

The same fraud was in 2013 with the Higgs Boson, the so-called “God particle”.

Gravitational field is Gravitons

“Gravitational field is Gravitons”

Adrian Ferent

“Gravitational field is a discrete function”

Adrian Ferent

Gravitational field is not continuous and differentiable function.

The momentum of the graviton is negative $p = - m \times v$.

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

You learned from your professors, from your books that a gravitational field is a model used to explain the influence of a mass into space.

You learned about couple gravitational fields, using PDEs (conditions of continuity and differentiability).

More complicated are the equations, more impressive is the theory for those who do not understand gravitations. Writing wrong and useless equations related to Einstein’s wrong gravitation theory was the job for the scientists in the last 100 years.

In classical mechanics the gravitational field is the negative gradient of the gravitational potential:

$$g = -\nabla\Phi$$

Einstein did not understand gravity and reinterpreted gravity not as a force pulling on objects but as a curvature of spacetime.

Einstein's field equations:

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

Quantum theories of gravity like String theory, LQG... try to reconcile general relativity with the principles of quantum mechanics.

Because Einstein gravitation theory is wrong, quantum theories of gravity like String theory, LQG...are wrong theories.

Einstein did not receive the Nobel Prize for his theory, but they received in 2017 the Nobel Prize for detection of gravitational waves, predicted by Einstein's theory.

LIGO announced the first-ever direct detection of gravitational waves.

“Einstein's gravitational waves do not exist, how they can detect them?”

Adrian Ferent

As a consequence of Einstein wrong gravitation theory, the physicists explained how they can travel through a black hole, through a wormhole.

“A black hole attracts with greater force a planet, than the planet attracts the black hole”

Adrian Ferent

This means:

“Newton's third law is wrong”

Adrian Ferent

Quantized Gravitational Field

“I am the first who Quantized the Gravitational Field!”

Adrian Ferent

“I quantized the gravitational field with gravitons”

Adrian Ferent

“Gravitational field is Gravitons”

Adrian Ferent

The momentum operator:

$$\hat{p}_x = -i\underline{a} \frac{\partial}{\partial x}$$

$$\hat{p} = -i\underline{a}\nabla$$

Where:

a – Ferent constant

$$\underline{a} = \frac{a}{2\pi}$$

Ferent wave equation of the graviton:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Ψ – the wave function of the graviton

Time-independent Ferent equation:

$$\hat{H} |\Psi\rangle = E |\Psi\rangle$$

A field is a physical quantity described by a number, vector, spinor, tensor that has a value for each point in space and time. For example the field strength is the magnitude of the vector.

That is why a field can be classified as a scalar field, a vector field, a spinor field, a tensor field.

You learned from your professors, from your books that the gravitational field g is a vector at each point of space and time, a vector pointing directly towards the particle.

That is why the elements of differential and integral calculus extend naturally to vector fields.

For example Gauss's law for gravity states:

The gravitational flux through any closed surface is proportional to the enclosed mass

The integral form of Gauss's law for gravity:

$$\oiint_{\partial V} g \cdot dA = -4\pi GM$$

In my Gravitation theory, the gravitational field is not continuous and differentiable function.

Gravitons do not exist in Einstein's gravitation theory, because General relativity is not a quantum theory.

“In my Gravitation theory, the gravitational field is not a vector at each point of space and time, where there are not gravitons there is not gravitational field”

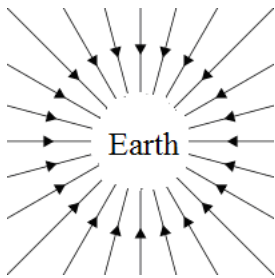
Adrian Ferent

Field lines are useful for visualizing vector fields; gravitational field lines come from infinity and end at masses.

The total number of flux lines is constant with increasing distance, where a greater density of flux lines (lines per unit area) means a stronger field.

For a sphere the density of flux lines is inversely proportional to the square of the distance from the source, because the surface area of a sphere increases with the square of the radius.

This means the strength of the gravitational field is inversely proportional to the square of the distance from the mass, like in this picture, closer to Earth the gravitational field is stronger:



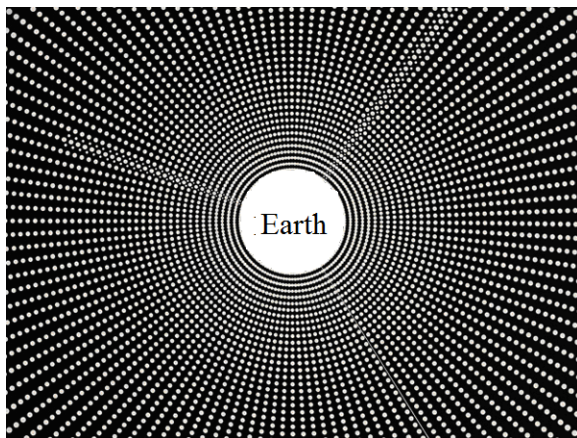
In my Gravitation theory the strength of the gravitational field is inversely proportional to the square of the distance from the sphere, because the surface area of a sphere increases with the square of the radius.

“In my Gravitation theory the density of flux lines is replaced by graviton flux”

Adrian Ferent

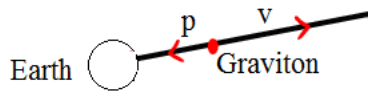
“Gravitational field lines are gravitons”

Adrian Ferent



“Each graviton in the gravitational field has a speed v and a negative momentum $p = -mv$ ”

Adrian Ferent



“The graviton flux is defined as the number of gravitons per second per unit area”

Adrian Ferent

$$\Phi = \frac{\# \text{ of gravitons}}{\text{sec } m^2}$$

“The power density is the graviton flux multiplied by the energy of a single graviton”

Adrian Ferent

$$H = \Phi \times \frac{av}{\lambda}$$

Where:

H – is the power density (W/m^2)

v - the gravitons speed

a – Ferent constant

Gravitons kill people

“Gravitons kill people”

Adrian Ferent

“Gravitons emitted by Black Holes kill people”

Adrian Ferent

“I am the first who explained Gravitational Radiation”

Adrian Ferent

“Gravitational radiation is gravitons”

Adrian Ferent

People ask, what is a Black Hole?

“Black holes are Ferent matter”

Adrian Ferent

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

“The majority of Ferent matter is the core of the supermassive black hole, in the center of each galaxy”

Adrian Ferent

“During the Big Bang first emerged the gravitational force with the speed of the gravitons: $v = 1.001762 \times 10^{17} \text{ m / s}$ ”

Adrian Ferent

Gravitons speed is $v = 1.001762 \times 10^{17} \text{ m/s}$, how I explained in my Gravitation theory close to the speed of light squared, $v = c^2$.

Energy of the gravitons: $E = m \times v^2$

Energy of the gravitons: $E = m \times c^4$

m – relativistic mass of the gravitons

At high frequency, gravitons have high energy:

Energy of the gravitons: $E = a \times f$

Graviton energy emitted by Black holes:

Graviton momentum > Photon momentum

I considered gamma rays with the frequency:

$$f = 300 \text{ EHz} = 3 \times 10^{20} \text{ Hz}$$

This means, the gravitons frequency emitted by black holes must be:

$$v > 4.176 \times 10^{71} \text{ Hz}$$

The graviton energy emitted by black holes:

$$E = a \times v$$

$$E = 4.14559 \times 10^5 \text{ GeV}$$

This means:

“Gravitons emitted by Black holes are harmful”

Adrian Ferent

“Gravitons with highest energy are emitted by black holes”

Adrian Ferent

“Inside the black holes, Gravitation force is much stronger than the Strong nuclear force”

Adrian Ferent

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, anyone can get cancer at any age, but the risk goes up with age”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body”

Adrian Ferent

“The gravitons emitted by a black hole do not follow the curvature created by the black hole, because Einstein Gravitation theory is wrong”

Adrian Ferent

Today it is accepted that the center of almost every galaxy contains a supermassive black hole.

Black holes in the Milky Way galaxy:

The Milky Way is home to more than 100 million black holes.

The Milky Way galaxy has a supermassive black hole, 4.1 million solar masses, at its center, 26000 light-years from the Solar System.

Black holes outside the Milky Way galaxy:

Andromeda Galaxy at 2.5 million light-years away, contains a central black hole $2 \times 10^8 M_{\odot}$.

At a distance of 53 million light-years it is M87 with the mass $6 \times 10^9 M_{\odot}$.

TON618 it contains one of the most massive known black hole, weighing in at 66 billion times M_{\odot} .

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

Adrian Ferent

Cosmic rays are high-energy radiation, from outside of our Solar System and even from distant galaxies.

Austrian physicist Victor Hess in August 1912 ascended to 5300 metres, he measured the rate of ionization in the atmosphere and found that it increased to some three times that at sea level.

Hess concluded that radiation was entering in the atmosphere from above. He had discovered cosmic rays.

Cosmic rays are only a fraction of the annual radiation exposure of human beings on Earth. At the same level with Terrestrial radiation from soil and building materials. Cosmic rays originate as primary cosmic rays are composed primarily of alpha particles, electrons and protons which are originally produced in various astrophysical processes. Hydrogen (protons) and helium (alpha particles) are the most abundant elements in the universe.

90% of the cosmic ray nuclei are protons, 9% are alpha particles and all of the rest of the elements make up only 1%.

When they interact with Earth's atmosphere, they are converted to secondary particles. Primary cosmic rays enter the Earth's atmosphere, they collide with atoms and molecules, mostly oxygen and nitrogen, these interactions produces a flow of lighter particles.

Radiation is energy traveling through space.

Types of radiation: electromagnetic radiation, particle radiation, acoustic radiation, gravitational radiation.

Gravitational radiation is gravitational waves.

“Gravitational waves are gravitons”

Adrian Ferent

Ionizing radiation takes a few forms: Alpha, beta, neutron particles and gamma and X-rays.

Alpha particles are unable to penetrate the outer layer of dead skin cells,

Beta radiation is made mostly of electrons, can penetrate skin a few centimeters.

Gamma radiation consists of photons and is the product of radioactive atoms. Gamma rays are the most energetic form of electromagnetic radiation.

Neutron radiation consists of free neutrons, emitted as a result of spontaneous or induced nuclear fission. The only type of radiation that is able to turn other materials radioactive.

The most penetrating forms of radiation pass through solid objects.

Primary cosmic rays which consist mostly of protons cannot penetrate the Earth's atmosphere.

You learned that gamma rays are the most penetrating of the radiations.

The gravitons have no electrical charge and no measurable mass.

“Gravitational radiation is the most penetrating type of radiation”

Adrian Ferent

Our life on Earth is protected from galactic cosmic rays by the Earth's atmosphere impenetrable for primary cosmic rays with energies below 1 GeV, so only secondary radiation can reach the surface; by Earth's magnetic field.

The damage by cosmic rays to our health depends on the flux, energy spectrum and nuclear composition of the radiation.

Higher energy of radiation, higher cancer risks including lung, stomach, breast and bladder cancers.

Longer exposure to galactic cosmic radiation is expected to pose significant neurological health risks.

The quantitative biological effects of cosmic rays are not well known and are the subject of ongoing research.

Altering chemical bonds in molecules may change composition or structure.

The effects of space radiation involve damage to DNA. In the case of double-strand breaks repair is more difficult and erroneous rejoining of broken ends may occur. The effects are mutations, chromosome aberrations or cell death. Alter the DNA code will leave the cell alive but with an error in the DNA blueprint. This effect might not appear for many years.

The most important effect of radiation is cancer, when radiation may not be to kill the cell, but alter its DNA code.

Anyway today at least 1300 diseases are known to be caused by a mutation. This means Gravitational Radiation can cause a lot of diseases not only cancer.

For each person there are between 5 and 10 potentially deadly mutations in our genes and because there's usually only one copy of the bad gene, these diseases don't manifest.

Cancer typically results from a series of mutations within a single cell.

From my Gravitation theory:

Graviton's frequency emitted by a planet, by Earth:

$$\nu < 4.176 \times 10^{56} \text{ Hz}$$

$$E = a \times \nu$$

$$E = 1.590511178 \times 10^{-76} \text{ J} \cdot \text{s} \times 4.176 \times 10^{56} \text{ Hz} = 6.641974 \times 10^{-20} \text{ J}$$

$$E = 0.414559 \text{ eV}$$

“Graviton energy emitted by Earth is much smaller than 1 eV”

Adrian Ferent

That is why:

“Gravitons from Earth are harmless”

Adrian Ferent

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

Adrian Ferent

“I am the first who Quantized the Gravitational Field!”

Adrian Ferent

Gravitons kill Aliens

“Gravitons kill Aliens”

Adrian Ferent

“I am the first who explained Gravitational Radiation”

Adrian Ferent

“Gravitons emitted by Black Holes kill Aliens”

Adrian Ferent

I calculated: the graviton’s energy emitted by black holes is higher than:

$$E = 4.14559 \times 10^5 \text{ GeV}$$

“Gravitational radiation is gravitons”

Adrian Ferent

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

Adrian Ferent

“I am the first who explained the lack of extraterrestrial civilizations”

Adrian Ferent

“Scientists are looking for extraterrestrial civilizations, where is a high density of stars and planets, around Black Holes, like in the center of our galaxy.

It is the same thing like looking for forests in the Sahara desert because is big”

Adrian Ferent

“Looking at stars I realized how powerful is the Mind, to know where the extraterrestrial civilizations in our Milky Way galaxy are”

Adrian Ferent

Where to look for extraterrestrial civilizations?

“Extraterrestrial civilizations are on planets moving around stars far away from Black Holes”

Adrian Ferent

The number of civilizations in our galaxy;

Drake equation:

$$N = R_* \cdot f_p \cdot n_e \cdot f_l \cdot f_i \cdot f_c \cdot L$$

Where:

N - the number of civilizations in our galaxy with which communication might be possible

R* - the current rate of star formation in our galaxy per year

f_p - fraction of those stars that have planets

n_e - number of planets per star having planets that might support life

f_l - the fraction of planets that could support life

f_i - the fraction of planets with life that will develop intelligent life

f_c - the fraction of civilizations that develop a technology that releases detectable signals into space

L - the length of time for which such civilizations release detectable signals into space

The equation is wrong because Drake concluded that $N \approx L$, this means N is between 1000 and 100,000,000 civilizations in the Milky Way galaxy.

The Milky Way is estimated to contain 100–400 billion stars.

This means the majority of stars do not have at least a planet with intelligent life.

The Milky Way is home to more than 100 million black holes.

The Milky Way galaxy has a supermassive black hole, 4.1 million solar masses, at its center, 26000 light-years from the Solar System.

Sagittarius A* is the location of the supermassive black hole in the center of the Milky Way galaxy.

Imaging black holes is a difficult challenge and not only because their intense gravity prevents even light from escaping but because they are also very small.

Supermassive though it may be, the heart of the Milky Way's black hole is not as big as we might think; the event horizon of Sagittarius A* is just 24 million km across, this means 17 times bigger than the Sun.

People ask, what is a Black Hole?

“Black holes are Ferent matter”

Adrian Ferent

The central cubic parsec around Sagittarius A* contains around 10 million stars.

How you can see in the picture there are a lot of stars in the center of our galaxy.

Because of Sagittarius A*:

“There are not extraterrestrial civilizations in the center of our galaxy”

Adrian Ferent



Where are extraterrestrial civilizations?

“The volume in Milky Way galaxy where life is possible:

$$V_l = V_M - \sum_{i=1}^n V_i$$

V_l – volume in Milky Way galaxy where life is possible

V_M – volume of the Milky Way galaxy

V_i – the volume around each black hole where intelligent life can not exist

n – the number of black holes in Milky Way galaxy”

Adrian Ferent

“Around each Black hole there is a volume where can not exist civilizations, because of deadly gravitons emitted by Black hole”

Adrian Ferent

We have to look for extraterrestrial civilizations, only in the volume V_l , not in the entire Milky Way galaxy like Drake equation and other equations do or how Asimov calculated.

The number of planets in our galaxy on which there are extraterrestrial civilizations is considered approximately 530000.

How I explained we have to look only in V_1 , this means the number of extraterrestrial civilizations is much smaller than 530000.

The nearest known exoplanet is 'Proxima Centauri b' located at 1.3 parsec, from Earth.

The Fermi paradox is the apparent contradiction between the lack of evidence and high probability estimates for the existence of extraterrestrial civilizations.

There are billions of stars in the Milky Way galaxy that are similar to the Sun and no evidence of extraterrestrial civilizations.

For example SETI has not found any signals from alien civilizations.

An alien civilization might feel it is too dangerous to communicate, because when very different civilizations have met on Earth, the results have often been disastrous for one side and the same may well apply to interstellar contact.

Perhaps prudent civilizations actively hide not from our civilization, but from other more advanced civilizations.

“Why there is no evidence of extraterrestrial civilizations? Because gravitons emitted by black holes kill Aliens”

Adrian Ferent

Anyway the evolution of intelligence seems to be rarer.

On Earth, no other forms of comparable intelligence existed until humans evolved.

Homo sapiens, our own species, came into existence maybe 200,000 years ago.

“I am the first who explained the lack of extraterrestrial civilizations”

Adrian Ferent

Why the Universe is so quiet? Where are the UFOs?

There are not extraterrestrial civilizations in the center of the galaxy.

There are a lot of stars and planets in the center of our galaxy.

Two Supermassive Black holes are in the center of our galaxy, they kill all the intelligent life around them.

The second black hole is 100000 times more massive than the sun, 200 light years from the center of the galaxy.

That is why:

“There are not extraterrestrial civilizations in the center of our galaxy”

Adrian Ferent

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

Adrian Ferent

Black holes closer to Earth: the black hole V404 Cygni is located 7800 light-years from Earth.

Supermassive black holes are in the center of each galaxy.

“I found the answer to this question: why the Universe is so quiet and why we do not see UFOs?”

There are only a small number of extraterrestrial civilizations in a galaxy; there are not extraterrestrial civilizations in the center of the galaxy where is the highest density of stars, there are not extraterrestrial civilizations around Black Holes”

Adrian Ferent

Black holes are Dark Matter. Information is lost in black holes

“Black holes are Dark Matter”

Adrian Ferent

“Information is lost in black holes”

Adrian Ferent

“Our universe will die; Gravitons will change Matter in Dark Matter, inside the Black Holes”

Adrian Ferent

Inside a Black Hole, this equation:

$$i\hbar \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Is replaced by this equation:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

How Matter is change in Dark Matter by Gravitons:

Ferent equation for photon – graviton interaction, photon absorption by a Black Hole:

$$E = h \times f + a \times f + a \times v$$

where $a \times v$ is the negative energy of the graviton

v is the frequency of the interaction graviton.

I calculated: the graviton’s energy emitted by black holes is higher than:

$$E = 4.14559 \times 10^5 \text{ GeV}$$

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k + \nu_k)$$

where f is the initial frequency of the photon.

Because graviton's frequency $\nu_k > f_k$ the energy E of the photon is higher after each photon-graviton interaction, this means photon's frequency is higher and this is the process how Matter is change in Dark Matter inside a Black Hole.

“Gravitons change Matter in Dark Matter, inside a Black Hole”

Adrian Ferent

That is why:

“Information is lost in black holes”

Adrian Ferent

“Black holes are Dark Matter”

Adrian Ferent

“Black holes are Ferent Matter”

Adrian Ferent

This is another proof that my Gravitation theory is right.

Wrong things what you learned about Black Holes, because Gravitons are not present in Einstein's wrong Gravitation theory!

That is why in my view Gerard 't Hooft, Leonard Susskind, Stephen Hawking, Jacob Bekenstein... are wrong regarding Black Holes:

Bekenstein and Hawking conjectured that the black hole entropy is directly proportional to the area of the event horizon divided by the Planck area.

From the entropy it is possible to use the usual thermodynamic relations to calculate the temperature of black holes.

The entropy measures how many such squares, whose side is a Planck length, are there on the surface of a black hole.

From here Gerard 't Hooft and Leonard Susskind suggested that the information is in fact preserved and is stored on the boundary of a system.

After the “The Black Hole War” Gerard 't Hooft, Stephen Hawking and Leonard Susskind agreed that the information is not lost inside a black hole; Gerard 't Hooft and Leonard Susskind discovered the holographic principle, the informational content of all the objects that have fallen into the black hole is entirely contained in surface fluctuations of the event horizon.

They considered a photon falling in a black hole, that will increase the black hole entropy and surface area; the black hole's mass increases and the photon information is stored on the event horizon.

Alice and Bob thought experiments:

Alice jumps into a very large black hole, leaving Bob outside the event horizon. Physicists have assumed that Alice won't notice anything unusual as she crosses the event horizon.

Gerard 't Hooft and Leonard Susskind are wrong because Information is lost in black holes.

That is why:

“The holographic principle is wrong”

Adrian Ferent

“My Quantum Gravity theory explains that the Event Horizon is made of Gravitons”

Adrian Ferent

That is why the informational content of all the objects that have fallen into the black hole is not contained in surface fluctuations of the event horizon.

What happens when we fall in a Black Hole?

“When we fall in a Black Hole, the Gravitons will break our atoms before we get to the event horizon”

Adrian Ferent

That is why:

Gerard 't Hooft and Leonard Susskind are wrong regarding Alice and Bob thought experiments, because the Gravitons will break the atoms of Alice and Bob, before they get to the event horizon.

You learned from your professors, from your books about the temperature of Black Holes!

“Because Black Holes are Dark Matter, Black Holes do not have temperature”

Adrian Ferent

“Black holes are Ferent Matter”

Adrian Ferent

“Ferent Matter is Dark Matter with the density greater than Planck density”

Adrian Ferent

I discovered that Black holes are Dark Matter, I discovered that the Information is lost in Black Holes, I discovered what is the Event Horizon, I explained that the holographic principle is wrong and I discovered what happens when we fall in a Black Hole.

51. I am the first who explained Gravitation

52. I am the first who discovered what happens when we fall in a Black Hole: the Gravitons will break our atoms before we get to the event horizon
53. I am the first who explained that the holographic principle is wrong
54. I am the first who discovered that Black holes are Dark Matter
55. I am the first who explained that Information is lost in black holes
56. I am the first who explained what is the event horizon: the Event Horizon is made of Gravitons
57. I am the first who explained that our universe will die; Gravitons will change Matter in Dark Matter, inside the Black Holes
58. I am the first who discovered that Gravitons change Matter in Dark Matter, inside a Black Hole

Proofs for my theory

We can say that practically the whole of information and knowledge which has been built up of the outside Universe has been acquired in this way, by the analysis of the energy which arrives constantly from space.

When people saw the same constellations for years, they were supposed to understand that the gravitons with the speed of light are too slow to keep those stars together. That is why Einstein-Hilbert field equations, String theory, LQG... are limited, because are limited to the speed of light.

A graviton or a virtual graviton needs less than one second to travel between stars located within 10 light-years.

A light year value is $ly = 9.460536207 \times 10^{15}$ m, the speed of the graviton $v_a = 1.001762 \times 10^{17}$ m/s and $t = 10 \times ly / v_a$, this means $t < 1$ s.

Another proof for my theory

The incoming radiation is accurately measured in terms of its direction of arrival, its intensity, its polarization and their changes with time by appending analyzing equipment to the radiation collector and recording the information with appropriate devices.

The developments of astronomical theories regularly engage long and complicated mathematics, in areas such as celestial mechanics for the theory of orbits, stellar atmospheres and cosmology.

The greater part of our knowledge of astronomical objects is based on the observation of electromagnetic energy which is collected by satellite instrumentation or transmitted directly through the atmosphere and collected by telescope.

There are galaxies 11 billion light years away, which are receding from us.

Why?

Because in my view the speed of the graviton v_a is too small to keep the galaxies together.

Dark energy does not exist. Big Bang and Big Crunch oscillation

The expansion of the Universe is speeding up and not slowing down.

Dark energy does not exist.

During the Big Bang the Planck universe started at Planck wall inside the Ferent universe.

The expansion of our universe, the Planck universe is speeding up because of attraction from Ferent universe that contains dark matter.

The majority of dark matter from Ferent universe is in the core of supermassive black holes.

This means, our universe, the Planck universe is surrounded by supermassive black holes from Ferent universe. Ferent universe with supermassive black holes is speeding up the expansion of Planck universe, not the dark energy.

My gravitation theory shows that dark energy does not exist!

These supermassive black holes from Ferent universe absorb, take in, the galaxies from Planck universe.

“Our Milky Way galaxy will be absorbed by a supermassive black hole from Ferent universe”

Adrian Ferent

“The gravitational force between Ferent universe and Planck universe is speeding up the expansion of Planck universe and will collapse Ferent universe”

Adrian Ferent

The Ferent universe will collapse to the state where it began and the Big Bang will start again from Ferent wall, the Ferent density $\rho_F = m_F / l_F^3 = 8.94 \times 10^{181} \text{ kg/m}^3$

Quantum gravitational effects prevent the universe from collapsing to infinite density. Instead, the universe “bounces” when the energy density of matter reaches the Ferent scale.

That is why:

“The Big Bang and Big Crunch oscillation, from Ferent wall”

Adrian Ferent

“Dark energy does not exist”

Adrian Ferent

Dark Energy is Gravitational Waves. Dark Energy is Gravitons.

At Ferent wall started our Universe: matter has positive energy and the gravitational field has negative energy.

The gravitons give a negative momentum to mass-carrying particles to attract them!

This means:

“The momentum of the graviton is negative $p = - m \times v$ ”

Adrian Ferent

“Because the momentum is negative, the relativistic mass $-m$ of the graviton is negative!”

Adrian Ferent

If the relativistic mass m of the graviton is negative, this implies that the kinetic energy of the graviton is negative.

My Gravitation theory explains that the gravitons traveling between planets, stars, galaxies are the negative energy in the Universe. These gravitons repel each other because they have negative relativistic mass and negative energy.

Two objects with negative mass would accelerate away from each other, they repel each other.

Dark energy does not exist; the only negative energy in the Universe is the negative kinetic energy of the gravitons.

“Dark Energy is Gravitational Waves”

Adrian Ferent

This negative energy in the Universe has a negative pressure. Negative pressure contributes to repulsive gravity in the universe causing the universe to expand faster over time.

The negative relativistic mass of gravitons is associated with negative momentum, negative pressure, negative energy and faster-than-light speed for gravitons.

“I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

This means the causes of Planck universe to expand faster:

- The Ferent universe with supermassive black holes is speeding up the expansion of Planck universe.
- The negative pressure created by gravitons inside the Planck universe, is speeding up the expansion of Planck universe.
- Not the Dark energy is speeding up the expansion of Planck universe, because Dark energy does not exist.

“Dark Energy is Gravitons”

Adrian Ferent

The title is 'Dark Energy is Gravitational Waves. Dark Energy is Gravitons', because my Gravitation theory is completely different than Einstein's Gravitation theory where Gravitational waves are ripples in the curvature of spacetime that propagate as waves with the speed of light.

Black holes and gravitons

Perhaps no other object from physics has had as much influence on public consciousness in recent times as the black hole has. General relativity predicts that black holes will be formed whenever sufficient mass is reduced into a small enough volume. The gravitational force at surface becomes so large that nothing can escape, no matter how fast it accelerates. Not even a beam of light can escape, hence the name black hole. Black holes are typical strong gravity phenomena.

Black holes are very massive, but occupy only a small region.

Once they have formed, black holes can easily gather mass from the dust and gas around them.

Because of the relationship between mass and gravity, this means they have a very powerful gravitational force.

Planets, stars and other matter must pass close to a black hole in order to be pulled into its grasp. When they reach a point of no return they are said to have entered the event horizon, the point from which any escape is impossible for the reason that it requires moving faster than speed of light.

Once a Supermassive black hole has formed, it can continue to grow by absorbing additional matter like planets, stars...

Black holes can accrue unlimited amounts of matter; they simply become even denser as their mass increases.

It is okay to observe a black hole if you stay away from its event horizon, this zone is the point of no return, think of it like the gravitational field of a planet.

Shortly after the formulation by Einstein of the theory of general relativity in 1915, Karl Schwarzschild discovered the exact solution of the gravitational field equations outside a spherically symmetric body, for example a star.

At the event horizon of the black hole from our galaxy the Gravity = 0, because the escape velocity is greater than c - speed of light and by Einstein gravitation theory, String theory, LQG...the gravitons have the speed of light. This means the black hole do not attract anything.

I am the first in the world who realized that the gravitons with the speed of light will not escape a black hole and find a solution. This means if the (gravitation) gravitons have the speed of light like Einstein field equations confirm, the black holes will not attract anything.

For a non-rotating spherically symmetric massive body such as a star or a planet the escape velocity at a given distance r , is calculated by the formula:

$$v = \sqrt{\frac{2GM}{r}}$$

where:

G is the universal gravitational constant

M is the mass of the object

r is the distance from the point in space to its center mass

The Schwarzschild radius:

$$r_s = \frac{2GM}{c^2}$$

where:

r_s is the Schwarzschild radius

M is the mass of the object

c is the speed of light

If I will replace r with r_s in the escape velocity formula, I will obtain:

$$v = c$$

This means the escape velocity for a black hole is greater than c - the speed of light and this shows that my gravitation theory is right and Einstein gravitation theory is incorrect.

The black holes will attract stars and planets only if the (gravitation) gravitons have a speed much higher than the speed of light.

I calculated the speed of the (gravitation) gravitons $v = 1.001762 \times 10^{17}$ m/s.

“I am the first who understood and explained the Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy”

Adrian Ferent

Each of my theory, Evolution theory and Science and Spirituality theory contains couple of my quotations.

Here there are few of my quotations related to my Gravitation theory:

Ferent Quotations

“My Nobel Prize - Discovery: the Photon – Graviton pair (coupled) has the same speed and frequency, and the photon energy divided by the graviton energy is the

electromagnetic energy divided by the gravitational energy, the electromagnetic force divided by the gravitational force”

“I discovered how to understand Gravity in the frame of quantum mechanics!”

“Feren equation for the energy of a photon $E = h \times f + a \times f$ ”

“I quantized the gravitational field with gravitons”

“Gravitational field lines are gravitons”

“The graviton flux is defined as the number of gravitons per second per unit area”

“The power density is the graviton flux multiplied by the energy of a single graviton”

“Each graviton in the gravitational field has a speed v and a negative momentum $p = -mv$ ”

“Gravitons change Matter in Dark Matter, inside a Black Hole”

“In my Gravitation theory the density of flux lines is replaced by graviton flux”

“Black holes are Dark Matter”

“In my Gravitation theory, the gravitational field is not a vector at each point of space and time, where there are not gravitons there is not gravitational field”

“In Feren electromagnetic theory, gravity does collapse quantum superpositions, gravity bends light because light has 3 sinusoids, has a gravitational sinusoid!

“In Maxwell electromagnetic theory, gravity does not collapse quantum superpositions, gravity does not bend light, because light has only 2 sinusoids!”

“Two important walls:

The Feren wall: here at time $t = 1.294 \times 10^{-86}$ s were created Feren matter and Gravitons, with the speed of the gravitons $v = 1.001762 \times 10^{17}$ m/s.

The Planck wall: here at time $t = 5.391 \times 10^{-44}$ s were created Matter and Photons, with the speed of the photons $c = 2.99792458 \times 10^8$ m/s”

“Feren matter is matter with the density less than or equal to Feren density and greater than Planck density”

“In the beginning was the qubit”

“Gravitational field is Gravitons”

“Gravitational field is a discrete function”

“I am the first in the world who Understood and Explained the Gravitation with high speed gravitons, $v = 1.001762 \times 10^{17}$ m/s”

“Lorentz, Poincaré, Einstein’s Special relativity is limited to the speed of light and to the photon energy”

“Special relativity can not be applied to the Graviton with energy much smaller than the photon energy”

“During the Big Bang first emerged the gravitational force with the speed of the gravitons: $v = 1.001762 \times 10^{17}$ m / s”

“Gravitons with speed of light, $c = 2.9979 \times 10^8$ m/s, are too Slow to keep the galaxy together”

“The gravitons emitted by a black hole do not follow the curvature created by the black hole, because Einstein Gravitation theory is wrong”

“The majority of Ferent matter is the core of the supermassive black hole, in the center of each galaxy”

“The properties of Ferent matter are the properties of dark matter”

“Ferent Matter is Dark Matter with the density greater than Planck density”

“Einstein, Hilbert General Relativity theory, String theory, LQG, all Quantum gravity theories are incorrect because are limited to the speed of light”

“Science will begin only when the scientists will understand the Gravitation”

“Information is lost in black holes”

“When we fall in a Black Hole, the Gravitons will break our atoms before we get to the event horizon”

“When the electron is jiggled it is a change in the gravitational field and the gravitons with a speed faster than the speed of light, $v = 1.001762 \times 10^{17}$ m / s will change the state of the entangled electron”

“It is not possible to have a Big Bounce from the Planck scale”

“Our universe will die; Gravitons will change Matter in Dark Matter, in Black Holes”

“The energy E contained in a graviton, which represents the smallest possible 'packet' of energy in an gravitational wave is ‘a’ the Ferent constant times frequency $E = a \times f$ ”

"In the beginning was the gravitation"

"The gravitons give a negative momentum to mass-carrying particles to attract them."

"The momentum of the graviton is negative $p = - m \times v$ "

"Because the momentum is negative, the relativistic mass $-m$ of the graviton is negative!"

"The relativistic mass m of the graviton is negative, this implies that the energy of the graviton is negative, $E = - m \times v_a^2$."

"I am the first who understood and explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Mass and Negative Energy"

"First try to understand gravitation and after do the calculations. If not you will follow Einstein and Hilbert who explained gravitation with geometry"

"The Photon – Graviton pair (coupled) has the same speed and frequency and this means the light has gravitation"

"Decoherence explained: the electromagnetic wave is the superposition of 3 sinusoids; this means the electromagnetic wave will be collapsed by the presence of an electric field, of a magnetic field, of a gravitational field, another electromagnetic wave..."

"When people saw the same constellations for years, they were supposed to understand that the gravitons with the speed of light are too slow to keep those stars together. That is why Einstein-Hilbert gravitational field equations are wrong, because are limited to speed of light"

"All scientists followed Einstein equations looking for big gravitational waves created by binary star systems and they built very expensive gravitational waves detectors. I was looking for a wave created by a single graviton"

"There are galaxies 11 billion light years away, which are receding from us, because the speed of the graviton $v = 1.001762 \times 10^{17}$ m/s is too small to keep the galaxies together"

"The majority of Dark matter is the core of the supermassive black holes"

"The Big Bang and Big Crunch oscillation, from Ferent wall"

"Our Milky Way galaxy will be absorbed by a supermassive black hole from Ferent universe"

"The gravitational force between Ferent universe and Planck universe is speeding up the expansion of Planck universe and will collapse Ferent universe"

“Dark energy does not exist”

“God is eternal, because is beyond the Big Bang and Big Crunch oscillation between Ferent universe and Planck universe.”

“Gravitation is caused by negative energy”

“Special theory of relativity is caused by positive energy”

“Gravitational time dilation is caused by negative momentum, negative energy”

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

“Mass does not bend space”

“Einstein bent the space, Ferent unbent the space”

“Newton and Einstein did not understand Gravitation, they calculated Gravitation”

“The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole. Because the energy of the gravitons emitted by the black hole is much higher than the energy of the gravitons emitted by the planet”

“Ferent matter is matter with density higher than Planck density”

“The holographic principle is wrong”

“Because the electromagnetic waves, the photons, can not escape from a black hole, this means the gravitons momentum emitted by the black hole is higher than the momentum of the photons”

“Black holes are Ferent matter”

“A black hole attracts with greater force a planet, than the planet attracts the black hole”

“The energy of the gravitons inside a black hole, is much higher than the energy of the gluons”

“My Quantum Gravity theory explains that the Event Horizon is made of Gravitons”

“Inside the black holes, Gravitation is much stronger than the Strong nuclear force”

“Because the electromagnetic waves, the photons, can escape from a planet, this means the gravitons momentum emitted by a planet is smaller than the momentum of the photons”

“Feret equation for photon – graviton interaction: $E = h \times f + a \times f - a \times v$ “

“Elementary particles emit and receive Gravitons!”

“All the physicists, mathematicians, engineers...where not capable to explain the gravitational redshift”

“Because the energy of the gravitons E_k is negative, the energy of the photon E after n interactions with gravitons it is smaller than the initial energy of the photon E_i ”

“To understand physics, the Universe, we must understand Gravitation”

“Dark Energy is Gravitons”

“Because the momentum of each graviton p_k is negative, the final momentum of a photon p is smaller than the initial momentum p_i and the photon will move towards the source of gravitons for example a galaxy.”

“I am the first who explained the gravitational redshift”

“The Gravitons are faster than light”

“The gravitational redshift is the proof that the gravitons are faster than light”

“The gravitons emitted after the photons are emitted, will not interact with the photons if they have only the speed of light”

“If gravitons have only the speed of light will not be able to keep constellations together.”

“Feret Gravitation theory explains the Universe at Galaxies level and at the Quantum level, explains black holes”

“All Nobel Prize winners did not understand Gravitation, Evolution, Transdisciplinarity”

“To oscillate photons need energy, that is why they emit Gravitons with negative energy and negative impulse”

“Elementary particles emit and receive gravitons because Gravity emerged at Feret wall before the Planck wall; because elementary particles interact via the force of gravity.”

“When a graviton is generated, it is generated the same energy and momentum, but with opposite sign which is received by the elementary particle”

“The conservation law of energy states that the total energy of an elementary particle remains constant.

$$a \times f - a \times f = 0$$

The conservation law of momentum states that the total momentum of an elementary particle remains constant.

$$a / \lambda - a / \lambda = 0$$

This means the total energy and the total momentum are constant.”

“Gravitational flux is proportional to the number of gravitons going through a normally perpendicular surface.”

“Gravitational field strength is smaller at higher altitude, because the flux of gravitons to the same surface is smaller at higher altitude, this means fewer interactions.”

“Interactions in my Gravitation theory, curvature in Einstein Gravitation theory”

“Scientists are more rigorous to indoctrinate people, than clerics.

Clerics need a thousand years to indoctrinate population with a new religion, scientists needed one hundred years to indoctrinate the whole world with Einstein's Gravitation theory, a wrong theory.”

“The photon has Electric field, Magnetic field and Gravitational field components. Similarly Elementary particles have Gravitational field component.”

“Newton's third law is wrong”

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

“Think more and Study less”

“In the last 100 years nobody discovered 1 meter of curved space”

“Gravitational flux density is the amount of flux passing through a defined area that is perpendicular to the direction of the flux.”

“The flux density of gravitons emitted by the Earth is bigger than the flux density of gravitons emitted by the Moon.”

“The Earth attracts with greater force the Moon, than the Moon attracts the Earth”

“Einstein bent the time, Ferent unbent the time”

“Gravitational waves are carried by gravitons”

“The Gravitational waves have their energy contained in gravitons”

“Gravitational waves carry negative energy”

“LIGO is the biggest fraud in science”

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

“Gravitons kill people”

“Gravitons emitted by Black Holes kill people”

“I am the first who explained Gravitational Radiation”

“Gravitational radiation is gravitons”

“Gravitons emitted by Black holes are harmful”

“Gravitons with highest energy are emitted by black holes”

“Because Black Holes are Dark Matter, Black Holes do not have temperature”

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

“Because Gravitational Radiation is the most penetrating radiation, anyone can get cancer at any age, but the risk goes up with age”

“Because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body”

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

“Gravitational waves are gravitons”

“Gravitational radiation is the most penetrating type of radiation”

“Gravitons from Earth are harmless”

“Gravitons kill Aliens”

“Gravitons emitted by Black Holes kill Aliens”

“I am the first who explained the lack of extraterrestrial civilizations”

“Scientists are looking for extraterrestrial civilizations, where is a high density of stars and planets, around Black Holes, like in the center of our galaxy. It is the same thing like looking for forests in the Sahara desert because is big”

“Looking at stars I realized how powerful is the Mind, to know where the extraterrestrial civilizations in our Milky Way galaxy are”

Where to look for extraterrestrial civilizations?

“Extraterrestrial civilizations are on planets moving around stars far away from Black Holes”

“There are not extraterrestrial civilizations in the center of our galaxy”

“Around each Black hole there is a volume where can not exist civilizations, because of deadly gravitons emitted by Black hole”

“Why there is no evidence of extraterrestrial civilizations? Because gravitons emitted by black holes kill Aliens”

“I found the answer to this question: why the Universe is so quiet and why we do not see UFOs?”

There are only a small number of extraterrestrial civilizations in a galaxy; there are not extraterrestrial civilizations in the center of the galaxy where is the highest density of stars, there are not extraterrestrial civilizations around Black Holes”

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

“I am the first who Quantized the Gravitational Field!”

My Discoveries

"The value of your brain is given by your discoveries"

Adrian Ferent

Couple of my discoveries:

1. I am the first who discovered a new quantum theory which breaks the wall of Planck
2. I am the first who Quantized the Gravitational Field
3. I am the first who explained what Black holes are: Black holes are Ferent matter
4. I am the first who discovered that the majority of dark matter is in the core of the supermassive black holes

5. I am the first who discovered another wall, the Ferent wall, beyond the Planck wall
6. I am the first who discovered Graviton energy: $E = av$
7. I am the first who discovered that Gravitons are faster than light
8. I am the first who discovered that Gravitational waves are Gravitons
9. I am the first who explained that Einstein's equivalence principle is wrong
10. I am the first who explained in the last 100 years that Einstein's General Theory of Relativity is wrong, because Einstein's equivalence principle is wrong
11. I am the first who explained that Gravitational field lines are gravitons
12. I am the first who replaced Heisenberg Uncertainty Principle with Ferent Uncertainty Principle
13. I am the first who discovered that String theory, LQG... are wrong theories, because it is wrong to Unify Einstein's Gravitation theory with Quantum Mechanics when Einstein's Gravitation theory is wrong
14. I am the first who discovered that Gravitational field is not continuous and differentiable function, how you learned from your professors in the last 200 years
15. I am the first who discovered that Dark Energy is Gravitons
16. I am the first who explained Gravitational Radiation
17. I am the first who discovered that Gravitons with highest energy are emitted by Black holes
18. I am the first who explained the lack of extraterrestrial civilizations
19. I am the first who calculated the Gravitons frequency emitted by a planet, by Earth:

$$\nu < 4.176 \times 10^{56} \text{ Hz}$$
20. I am the first who calculated the Gravitons energy emitted by a Black hole:

$$E > 4.14559 \times 10^5 \text{ GeV}$$
21. I am the first who discovered that there are not extraterrestrial civilizations in the center of our galaxy
22. I am the first who explained that the Earth attracts with greater force the Moon, than the Moon attracts the Earth

23. I am the first who explained how to understand Gravity in the frame of quantum mechanics

24. I am the first who discovered that Gravitons kill people

25. I am the first who explained the Gravitational redshift with Gravitons

26. I am the first who explained the Gravitational lensing with Gravitons

27. I am the first who discovered the equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

28. I am the first who explained that the momentum of the graviton is negative:

$$p = - m \times v$$

29. I am the first who explained that Mass does not bend space

30. I am the first who explained that Mass does not bend time

31. I am the first who explained that Gravitational time dilation is caused by negative momentum, negative energy

32. I am the first who calculated the speed of the Gravitons:

$$v_a = 1.001762 \times 10^{17} \text{ m/s}$$

33. I am the first who discovered that it is not possible to have a Big Bounce from the Planck scale

34. I am the first who discovered that Gravitons kill aliens

35. I am the first who discovered that Gravitational field is Gravitons

36. I am the first who discovered that Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum

37. I am the first in the last 100 years who explained that Einstein's Gravitation theory is wrong and Einstein's Gravitational waves do not exist

38. I am the first who explained the power density and the graviton flux

39. I am the first who discovered the force function for finite speed of the gravitons, the Ferent gravitational force function

40. I am the first who discovered that a black hole attracts with greater force a planet, than the planet attracts the black hole
41. I am the first who explained that Newton's third law is wrong
42. I am the first who discovered that the Gravitational waves have their energy contained in gravitons
43. I am the first who explained Gravitation with high speed gravitons $v = 1.001762 \times 10^{17}$ m/s, with Negative Momentum, Negative Relativistic Mass and Negative Energy
44. I am the first who discovered that Gravitons must be Faster than Light (FTL)
45. I am the first who discovered the Ferent length, much smaller than the Planck length
46. I am the first who discovered the Ferent frequency much higher than the Planck frequency
47. I am the first who discovered because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body
48. I am the first who discovered the equation for an elementary particle which emits a graviton:

$$\left(\hat{H} + \hat{H}_g\right)|\Psi\rangle = E|\Psi\rangle$$

49. I am the first who discovered the Ferent wave equation of the graviton:

$$i\alpha \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

50. I am the first who discovered: Quantum Gravity Theory (QGT)
51. I am the first who explained Gravitation
52. I am the first who discovered what happens when we fall in a Black Hole: the Gravitons will break our atoms before we get to the event horizon
53. I am the first who explained that the holographic principle is wrong
54. I am the first who discovered that Black holes are Dark Matter
55. I am the first who explained that Information is lost in black holes

56. I am the first who explained what the event horizon is: the Event Horizon is made of Gravitons

57. I am the first who explained that our universe will die; Gravitons will change Matter in Dark Matter, inside the Black Holes

58. I am the first who discovered that Gravitons change Matter in Dark Matter, inside a Black Hole

59. I am the first who discovered that Black Holes do not have temperature, because Black Holes are Dark Matter

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

Adrian Ferent

“Your quotations are the CV of your wisdom”

Adrian Ferent

“I discovered a new Gravitation theory, a new Evolution theory and Transdisciplinarity equations!”

Adrian Ferent

7. Conclusions

I consider the theory of gravity the most important theory because since ancient times brightest people tried to explain the most common force in nature and how the universe began.

“To understand physics, the Universe, we must understand Gravitation”

Adrian Ferent

“I discovered how to understand Gravity in the frame of quantum mechanics!”

Adrian Ferent

“I am the first who Quantized the Gravitational Field!”

Adrian Ferent

I discovered the graviton: the momentum of the graviton, the energy of the graviton, the speed of the graviton, the frequency of the graviton and the mass of the graviton.

I found another wall the Ferent wall beyond the Planck wall, where the Planck constant $h=6.62606957 \times 10^{-34}$ J·s is replaced by Ferent constant $a = 1.590511178 \times 10^{-76}$ J·s.

I replaced Max Planck equation $E = h \times f$ with the Ferent equation for the energy of a photon:

$$E = h \times f + a \times f$$

I discovered the momentum of the graviton:

$$p = a / \lambda$$

I replaced Heisenberg Uncertainty Principle $\Delta p \times \Delta x \geq h / 4\pi$ with Ferent Uncertainty Principle:

$$\Delta p \times \Delta x \geq a$$

I discovered a new gravitation theory and I found how the gravitation and the gravitons emerged at first Ferent wall. Why gravitons faster than the speed of light?

I am the first in the world who understood and explained that the gravitons with the speed of light are too slow to keep the constellations together.

“I quantized the gravitational field with gravitons”

Adrian Ferent

The momentum operator:

$$\hat{p}_x = -i\underline{a} \frac{\partial}{\partial x}$$

$$\hat{p} = -i\underline{a}\nabla$$

Where:

a – Ferent constant

$$\underline{a} = \frac{a}{2\pi}$$

Ferent wave equation of the graviton:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Ψ – the wave function of the graviton

Time-independent Ferent equation:

$$\hat{H} |\Psi\rangle = E |\Psi\rangle$$

“Elementary particles emit and receive Gravitons!”

Adrian Ferent

“The gravitons give a negative momentum to mass-carrying particles to attract them.”

Adrian Ferent

“Gravitational force is mediated by gravitons faster than the speed of light, with negative momentum”

Adrian Ferent

“Gravitational waves carry negative energy”

Adrian Ferent

“In my Gravitation theory the density of flux lines is replaced by graviton flux”

Adrian Ferent

“Gravitational field lines are gravitons”

Adrian Ferent

“Each graviton in the gravitational field has a speed v and a negative momentum $p = -mv$ ”

Adrian Ferent

“Newton's third law is wrong”

Adrian Ferent

Before you begin to study wrong theories in physics and mathematics like Newton's gravitation theory, Einstein's gravitation theory, String theory, LQG...:

“Think more and Study less”

Adrian Ferent

During the Big Bang first emerged the gravitational force with the speed of the gravitons:

$$v_a = 1.0017620 \times 10^{17} \text{ m/s}$$

These gravitons with the speed much bigger than the speed of light at the second Ferent wall have negative momentum, negative mass and negative energy.

“Gravitational field is Gravitons”

Adrian Ferent

“Gravitational field is a discrete function”

Adrian Ferent

The others gravity theories do not explain why the universe expansion is speeding up. I discovered a new electromagnetic theory.

When people saw the same constellations for years, they were supposed to understand that gravitons with the speed of light are too slow to keep those stars together. That is why Einstein-Hilbert gravitational field equations, String theory, LQG... are limited, because they are limited to speed of light.

Particle and graviton interaction as tensor product:

$$\varphi_P \otimes \varphi_G = \sum_{i=1}^N \sum_{j=1}^M a_i b_j |i, j\rangle$$

My gravitation theory explains dark matter and explains that dark energy doesn't exist.

Ferent gravitational force function is a convolution of two functions, the Newton (Hooke) law of universal gravitation function and Dirac delta function.

Ferent gravitational force function:

$$F = \int_{-\infty}^{\infty} G \frac{m_1(t)m_2(t)}{r^2(t)} \delta\left(t - \frac{r(t)}{v(t)}\right) dt$$

I explained quantum entanglement and decoherence.

The perturbation of a photon in the gravitational field is a graviton with the same frequency and speed as the photon has; but the gravitons in my theory that mediates the gravitational force, the gravitons which mediates the interaction force have different frequencies when the photon travels near an asteroid, near the Earth or near the Sun.

“I am the first who explained the gravitational redshift”

Adrian Ferent

“The relativistic mass m of the graviton is negative, this implies that the energy of the graviton is negative, $E = -m \times v_a^2$.”

Adrian Ferent

“The Gravitons are faster than light”

Adrian Ferent

“The gravitational redshift is the proof that the gravitons are faster than light”

Adrian Ferent

“The gravitons emitted after the photons are emitted, will not interact with the photons if they have only the speed of light”

Adrian Ferent

“To oscillate photons need energy, that is why they emit Gravitons with negative energy and negative impulse.”

Adrian Ferent

Ferent equation for photon – graviton interaction:

$$E = h \times f + a \times f - a \times v$$

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k - \nu_k)$$

A lot of gravity theories explain that the universe was very hot this means electromagnetic radiation, beyond the Planck wall. My theory explains that beyond the Planck wall were only Ferent matter and gravitons.

“The majority of Dark matter is the core of the supermassive black holes”

Adrian Ferent

“Special theory of relativity is caused by positive energy”

Adrian Ferent

What is the difference between time dilation in Special theory of relativity and Gravitational time dilation?

Time dilation in Special theory of relativity is caused by positive energy.

“Gravitational time dilation is caused by negative momentum, negative energy”

Adrian Ferent

“Einstein's equivalence principle is wrong because the gravitational force experienced locally is caused by a negative energy, gravitons energy and the force experienced by an observer in a non-inertial (accelerated) frame of reference is caused by a positive energy”

Adrian Ferent

Because Einstein's equivalence principle is wrong, Einstein's gravitation theory is wrong.

“Mass does not bend space”

Adrian Ferent

“Einstein bent the space, Ferent unbent the space”

Adrian Ferent

All the physicists, mathematicians, engineers...where not capable to explain the gravitational redshift.

Only my Gravitation theory explains the gravitational redshift.

In my view the most important properties of the Gravitons:

Gravitons help photons (and all the particles) to oscillate.

Gravitons collapse matter, bring everything together.

Gravitons transfer energy, transfer mass. The Higgs boson is not involved.

Until now we know that the graviton is massless, because the gravitational force have unlimited range, has only relativistic mass and must be spin $s = 2$.

The spin angular momentum of the graviton S:

$$S = \frac{a}{2\pi} \sqrt{s(s+1)}$$

“Dark Energy is Gravitational Waves”

Adrian Ferent

“The momentum of the graviton is negative $p = -m \times v$ ”

Adrian Ferent

“Because the momentum is negative, the relativistic mass $-m$ of the graviton is negative!”

Adrian Ferent

The causes of Planck universe to expand faster:

- The Ferent universe with supermassive black holes is speeding up the expansion of Planck universe.
- The negative pressure created by gravitons inside the Planck universe, is speeding up the expansion of Planck universe.
- Not the Dark energy is speeding up the expansion of Planck universe, because Dark energy does not exist.

“Dark Energy is Gravitons”

Adrian Ferent

“Ferent Matter is Dark Matter with the density greater than Planck density”

Adrian Ferent

I explained Gravitational lensing and Gravitational redshift during Gravitational lensing.

“Because the momentum of each graviton p_k is negative, the final momentum of a photon p is smaller than the initial momentum p_i and the photon will move towards the source of gravitons for example a galaxy.”

Adrian Ferent

$$p = p_i + \sum_{k=1}^n p_k$$

$$p = p_i + \sum_{k=1}^n p_k + \sum_{e=1}^n p_e$$

“Because the energy of the gravitons E_k is negative, the energy of the photon E after n interactions with gravitons it is smaller than the initial energy of the photon E_i .”

Adrian Ferent

$$E = E_i + \sum_{k=1}^n E_k$$

$$E = E_i + \sum_{k=1}^n E_k - \sum_{e=1}^n E_e$$

Einstein theory of gravitation is wrong because fails to explain Gravitational lensing and Gravitational redshift.

I explained why Newton's third law is wrong!

“Newton and Einstein did not understand Gravitation, they calculated Gravitation”

Adrian Ferent

In the last 300 years you learned from your professors that Newton's third law is right.

Why Newton's third law is wrong?

For example the interaction between a black hole and a planet, or a star:

“The gravitational force exerted by the black hole on the planet is much higher than the gravitational force exerted by the planet on the black hole. Because the energy of the gravitons emitted by the black hole is much higher than the energy of the gravitons emitted by the planet”

Adrian Ferent

$$F_{12} = -G \frac{m_1 m_2 \hat{r}_{12}}{|r_{12}|^2}$$

This means Newton's third law is wrong:

$$F_{12} \neq -F_{21}$$

Why Newton's third law is wrong?

Because the reaction is not simultaneously, because the gravitons which mediate the gravitational force, have a finite speed, not an infinite speed.

“Ferent matter is matter with density higher than Planck density”

Adrian Ferent

“Because the electromagnetic waves, the photons, can not escape from a black hole, this means the gravitons momentum emitted by the black hole is higher than the momentum of the photons”

Adrian Ferent

Elementary particles emit a graviton:

$$(\hat{H} + \hat{H}_g) |\Psi\rangle = E |\Psi\rangle$$

Elementary particles receive a graviton:

$$(\hat{H} - \hat{H}_g) |\Psi\rangle = E |\Psi\rangle$$

“Elementary particles emit and receive gravitons because Gravity emerged at Ferent wall before the Planck wall; because elementary particles interact via the force of gravity.”

Adrian Ferent

“The photon has Electric field, Magnetic field and Gravitational field components. Similarly Elementary particles have Gravitational field component.”

Adrian Ferent

“A black hole attracts with greater force a planet, than the planet attracts the black hole”

Adrian Ferent

“Black holes are Ferent matter”

Adrian Ferent

“Inside the black holes, Gravitation is much stronger than the Strong nuclear force”

Adrian Ferent

This is another proof that my Gravitation theory is right.

“Ferent Gravitation theory explains the Universe at Galaxies level and at the Quantum level, explains black holes”

Adrian Ferent

“Gravitational flux density is the amount of flux passing through a defined area that is perpendicular to the direction of the flux.”

Adrian Ferent

“The flux density of gravitons emitted by the Earth is bigger than the flux density of gravitons emitted by the Moon.”

Adrian Ferent

This means more gravitons will arrive from the Earth to the Moon than to the Moon to the Earth.

This means Newton's third law is wrong and:

“The Earth attracts with greater force the Moon, than the Moon attracts the Earth”

Adrian Ferent

“Gravitational flux is proportional to the number of gravitons going through a normally perpendicular surface.”

Adrian Ferent

The gravitational flux over a surface S is therefore given by the surface integral:

$$\Phi_G = \iint_S g dS$$

“Gravitational field strength is smaller at higher altitude, because the flux of gravitons to the same surface is smaller at higher altitude, this means fewer interactions.”

Adrian Ferent

“The graviton flux is defined as the number of gravitons per second per unit area”

Adrian Ferent

$$\Phi = \frac{\# \text{ of gravitons}}{\text{sec } m^2}$$

“The power density is the graviton flux multiplied by the energy of a single graviton”

Adrian Ferent

$$H = \Phi \times \frac{av}{\lambda}$$

“Interactions in my Gravitation theory, curvature in Einstein Gravitation theory”

Adrian Ferent

“Gravitational waves are carried by gravitons”

Adrian Ferent

“The Gravitational waves have their energy contained in gravitons”

Adrian Ferent

“Gravitons have negative energy $E = a \times f$ and the speed higher than the speed of light”

Adrian Ferent

You learned about gravitational fields, using PDEs (conditions of continuity and differentiability).

More complicated are the equations, more impressive is the theory for those who do not understand gravitations. Writing wrong and useless equations related to Einstein’s wrong gravitation theory was the job for the scientists in the last 100 years.

“Einstein bent the time, Ferent unbent the time”

Adrian Ferent

“All Nobel Prize winners did not understand Gravitation, Evolution, Transdisciplinarity”

Adrian Ferent

“Black Holes are Dark Matter”

Adrian Ferent

“Information is lost in black holes”

Adrian Ferent

“Our universe will die; Gravitons will change Matter in Dark Matter, in Black Holes”

Adrian Ferent

Inside a Black Hole, this equation:

$$i\hbar \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

Is replaced by this equation:

$$i\underline{a} \frac{\partial}{\partial t} |\Psi\rangle = \hat{H} |\Psi\rangle$$

How Matter is change in Dark Matter by Gravitons:

Ferent equation for photon – graviton interaction, photon attracted by a Black Hole:

$$E = h \times f + a \times f + a \times v$$

where $a \times v$ is the negative energy of the graviton

v is the frequency of the interaction graviton.

I calculated: the graviton’s energy emitted by black holes is higher than:

$$E = 4.14559 \times 10^5 \text{ GeV}$$

After n interactions the energy of the photon is:

$$E = h \times f + \sum_{k=1}^n a(f_k + v_k)$$

where f is the initial frequency of the photon.

Because graviton’s frequency $v_k > f_k$ the energy E of the photon is higher after each photon-graviton interaction, this means photon’s frequency is higher and this is the process how Matter is change in Dark Matter inside a Black Hole.

“Gravitons change Matter in Dark Matter, inside a Black Hole”

Adrian Ferent

“Gravitons kill people”

Adrian Ferent

“Gravitons emitted by Black Holes kill people”

Adrian Ferent

“I am the first who explained Gravitational Radiation”

Adrian Ferent

“Gravitons emitted by Black holes are harmful”

Adrian Ferent

“Gravitons with highest energy are emitted by black holes”

Adrian Ferent

“Gravitational Radiation is the most dangerous because it travels the farthest and is the most penetrating”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, anyone can get cancer at any age, but the risk goes up with age”

Adrian Ferent

“Because Gravitational Radiation is the most penetrating radiation, cancer can start almost anywhere in the human body”

Adrian Ferent

“The source for Gravitational radiation: from 100 million black holes from our galaxy and from black holes outside the Milky Way galaxy”

Adrian Ferent

You learned from your professors, from your books about the temperature of Black Holes!

“Because Black Holes are Dark Matter, Black Holes do not have temperature”

Adrian Ferent

Gravitational radiation is gravitational waves.

“Gravitational waves are gravitons”

Adrian Ferent

Anyway today at least 1300 diseases are known to be caused by a mutation. This means Gravitational Radiation can cause a lot of diseases not only cancer.

“Graviton energy emitted by Earth is much smaller than 1 eV”

Adrian Ferent

“Gravitons from Earth are harmless”

Adrian Ferent

“Gravitons kill Aliens”

Adrian Ferent

“Gravitons emitted by Black Holes kill Aliens”

Adrian Ferent

“I am the first who explained the lack of extraterrestrial civilizations”

Adrian Ferent

“There are not extraterrestrial civilizations in the center of our galaxy”

Adrian Ferent

Where are extraterrestrial civilizations?

“The volume in Milky Way galaxy where life is possible:

$$V_l = V_M - \sum_{i=1}^n V_i$$

V_l – volume in Milky Way galaxy where life is possible

V_M – volume of the Milky Way galaxy

V_i – the volume around each black hole where intelligent life can not exist

n – the number of black holes in Milky Way galaxy”

Adrian Ferent

“Around each Black hole there is a volume where can not exist civilizations, because of deadly gravitons emitted by Black hole”

Adrian Ferent

“Why there is no evidence of extraterrestrial civilizations? Because gravitons emitted by black holes kill Aliens”

Adrian Ferent

Where to look for extraterrestrial civilizations?

“Extraterrestrial civilizations are on planets moving around stars far away from Black Holes”

Adrian Ferent

“Scientists are looking for extraterrestrial civilizations, where is a high density of stars and planets, around Black Holes, like in the center of our galaxy.

It is the same thing like looking for forests in the Sahara desert because is big”

Adrian Ferent

“I found the answer to this question: why the Universe is so quiet and why we do not see UFOs?”

There are only a small number of extraterrestrial civilizations in a galaxy; there are not extraterrestrial civilizations in the center of the galaxy where is the highest density of stars, there are not extraterrestrial civilizations around Black Holes”

Adrian Ferent

“Looking at stars I realized how powerful is the Mind, to know where the extraterrestrial civilizations in our Milky Way galaxy are”

Adrian Ferent

“Nobody in lectures say ‘I discovered these things’, that is why nobody understands what the contributions to the lecture by the speaker are!”

Adrian Ferent

My quantum gravity theory shows that the gravitons are too small to be detected by today’s technology.

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