

New Dark Energy and Letter to the Nobel Committee.

Author: Dan Visser, independent cosmologist, Almere, the Netherlands.

Date: January 27 2012

Abstract

This paper describes what New Dark Energy is, as well as my comment “Nobel Nominations in a New World” to the Nobel Committee. These seemingly different looking subjects are importantly connected in a plea to change the way Nobel-nominations are performed in a changing world with internet and alternative archives, such as viXra. The point is, that institutional established physics and cosmology block new ideas from the public domain. Therefore an appendix has been added to this paper to summarize in a nutshell, relativity, space-expansion, accelerated space-expansion and the one time-direction in the Big Bang Cosmology, in order to explain better what new dark energy is and what its meaning is for physics and new cosmology. That message is meant for the Nobel Committee. Furthermore three-why’s are answered: Why are two extra time-directions needed in a new cosmology? Why is the introduction of dark mass, squared? Why would there be a Double Torus for New Cosmology? Also the basic-formulas are summarized, referring to my papers, such as the dark energy force formula from my thought-experiment, followed by its transformed-version: the force smaller than the smallest gravity. In the end New Dark Energy is formulated as a product of new dark mass (squared) and two extra time-directions from below the Planck scale. This marks that New Dark Energy could recalculate the established dual unitary-entangled quantum-spaces faster backwards in time than time goes forward in the Big Bang Cosmology ! This affects the established quantum dynamics and classical reality towards the past and future differently than Einstein’s General Relativity is prescribing. The letter to the Nobel Committee is send by me, because no other institutions is doing that for me.

Preface.

Firstly I introduce myself: I am Dan Visser (1947), from Almere, the Netherlands, and independent cosmologist, address: M. Ruyshof 20, Almere, the Netherlands, Phone: +31(0)36 5499701.

This preface comprehends a comment attenuated to the Nobel Committee (named: Nobel Nominations in a New World). As the Nobel-organization describes: Information is send as individual invitations to thousands of members of academies, university professors, scientists from numerous countries, previous Nobel Laureates, members of parliamentary assemblies and others, asking them to submit candidates for the Nobel Prizes for the coming year. These nominators are chosen in such a way that as many countries and universities as possible are represented over time.

However, I think in the new world, where a lot of creativity and knowledge is exchanged among scientists, and self-learning outside the institutions via the internet and alternative archives has become a new dynamic (with respect to the knowledge that institutions have built during the past several centuries), a lot of useful ideas are generated for Physics and Cosmology in the ‘public domain’. This can contribute to further development in Physics and Cosmology. That is also for the benefit of the institutions.

That implies, that I am of opinion, the Nobel Committee should 'open its eyes' by also allowing 'outsiders' to the list of possible nominations. This opinion is also my motive to inform the Nobel-Committee with my particular view on a New Cosmology: The Double Torus Universe. In an appendix (attached), a summary is shown to explain that a New Dark Energy and a new dark energy force determines this new Cosmological Hypothesis. The next introduction also anchors that evidence is present for that hypothesis.

Introduction.

This introduction also refers to a message I send to the Guardian.co.uk, with the title: 'Independent Cosmologist in the race for Nobel Prize'. In that message I refer to evidence for the New Cosmology of the Double Torus Universe. There is no other option for me than taking the chance to tell the Nobel committee about that and the New Cosmological Hypothesis, because no institution does that for me!

I hope this letter will be weighted in the judgments of the Nobel Committee in order to contribute in progress for Cosmology. The letter is as follows:

'Independent Cosmologist in the race for Nobel prize.'

(also as message to the Guardian.co.uk)

Dan Visser, from Almere, the Netherlands, has a technical-management-background-education and experience, and is not affiliated to a science-institute. He is an independent cosmologist (and painting Artist)^[1]. He claims to have theoretically proved a *new dark energy force formula* that did calculate the 'neutrinos-faster-than-light-in-vacuum' at the CERN-Gran-Sasso-experiment recently (2011), while conventional Physics and Cosmology (based on Big Bang Cosmology) has no theory for this phenomenon.

Moreover, the Integral satellite-results (published mid 2011), which predict a space-graininess far more less than the Planck scale, also were theoretically calculated by Dan in a complete new and authentic way of defining quantum-entanglement. His new dark energy force formula is a fundamental keystone in the subject of New Cosmology.

A duo state of neutrino energy.

"I published a 'paper' on this subject in the viXra-archive (mathematical Physics^[2]). It discloses a theoretically derived calculation with a time-gain of 62.8 nanoseconds in the flight-path of neutrinos, compared to the duration of the light speed-in-vacuum. The 62.8 nanosecond-result is within the experimental statistical-and systematic-limits of the CERN-San Grasso experiments.

Remarkably my theoretical results even reveal the 'neutrino-time-gain' is independently of any trajectory! It is only dependent of two neutrinos in a '*duo-state of energy' in addition with the new dark energy force*'.

The dark energy force restores the symmetry between a neutrino and his own anti-particle into a symmetrically new identity passing the boundaries of Relativity. However, this does not mean Relativity is disappearing from the 'stage'. In the contrary: Relativity is part of a new cosmology, the Double Torus Universe."

Double Torus Hypothesis.

“The *new dark energy force* represents a *new definition for dark energy*, which is not Einstein's 'cosmological constant' used for an accelerated space-expansion in the Big Bang. *The new dark energy force acts as a recalculation-mechanism for quantum reality and accordingly classical reality.* The hypothesis claims the Double Torus exists of a torus of dark energy and dark matter, with dark matter torus being the inner torus, which is surrounded (embedded) and intertwined by a second larger torus of dark energy.

In the dark matter torus visible matter is a related state of dark matter; we only observe about 4% visible reality (fig.1 shows the new idea for future cosmology). The *dark energy torus* is characterized by *three time-directions*, which are: The old fashioned *one time-direction of Big Bang Cosmology (from above the Planck scale)* and a *newly two time-directional energy, originated from a domain below the Planck scale.* That defines the Double Torus. These definitions showed up from the new dark energy force formula, which in turn is discovered in a thought-experiment performed by Dan Visser in April 2004.”

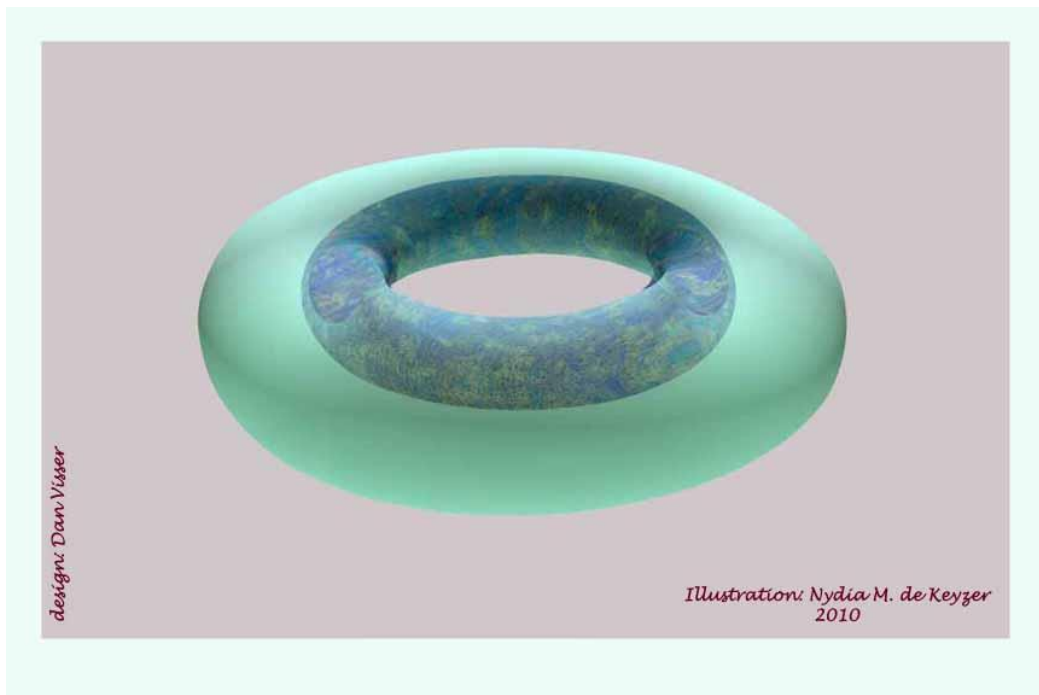


Fig 1: The new shape for the universe, according to the Double Torus Hypothesis, on small and large scale, and recalculating reality, wherein Relativity is a part of the Double Torus geometry.

History.

“I derived the *new dark energy force formula* and published it on my website on April 10 2004. Then the British Christopher Forbes (PhD mathematics-physics and Fellow of the Royal Astronomical Society) picked it up from the internet in the summer of 2009 and succeeded to express it in a general mathematical formulation (this was published in a first 'viXra-paper' of the Double Torus in September 1 2009: Mathematical Physics). Afterwards I transformed my new 'dark energy force formula' into a specific version, wherein I showed that two entangled quantum-spaces could be

recalculated by two extra time-directions from below the Planck scale. This directly puts us in a recalculating reality as part of a new cosmological geometry: The Double Torus Universe.”

More experimental evidence is already a fact.

“There are now two experimental evidences for the hypothesis related to two of my papers. One is my calculation of the faster-than-light-neutrinos in the CERN-Gran Sasso-experiment, within the statistical and systematic margins and the second is the Integral-satellite data-results from July 2011, which conclude space-graininess must be smaller than 10^{-48} meter (unexpected far more less than the Planck-scale of 10^{-35} meter). The first one is earth-laboratory-evidence (as said, with my theoretical result of 62.8 nanoseconds neutrino time-gain to light; while CERN found about 60 nanoseconds time-gain), but the second one is astronomical-evidence (my theoretical result is 10^{-57} meter, which is indeed far more smaller than 10^{-48} meter); -- mine is predicted as about 10^{44} subdivisions of information-surfaces, represented as a sub-quantum-torus-geometry, being sub-quantum-information inside the unitary-entanglement-established-quantum-physics; according to the paper-reference^[3], is taking the exponent-half of these sub-quantum-surfaces, making the Planck scale smaller up to $10^{-35} \cdot (10^{-44})^{1/2} = 10^{-35} \cdot 10^{-22} = 10^{-57}$ meter, just as the Integral-satellite results predict - -”

Nobel Committee.

“A friend of mine said: “That will be the Nobel prize for you”. I silently thought: “That would be a Novelty, because I am an outsider and maybe even found a ‘dissident’ in science”. However, I cannot deny my predictions do match Carl Poppers philosophy: The theory must stand the experiment! And that’s what happened twice!”

[1] www.darkfieldnavigator.com

[2] <http://vixra.org/abs/1110.0030> ; October 9 2011; Author Dan Visser, titled: "New Dark Energy Formula theoretically calculates Faster-than-light-neutrinos".

[3] <http://vixra.org/abs/1101.0096>; February 2 2011; Author Dan Visser, introduced co-author Christopher Forbes, titled: “Entanglement related to cosmology-TTM.

Note 1: My letter is attenuated to the Nobel Committee and also added to my list of ‘papers’.

Note 2: An appendix is attached, wherein a summary is made to explain what New Dark Energy is. In a nutshell is showed that Relativity, the Big Bang and the accelerated space-time-expansion are considered being a part of the Double Torus Universe. Moreover, a new dark energy force is shown, as well as the remarkably new formulation for Dark Energy. Both formulations theoretically predict (prove) a recalculation universe being embedded in a new cosmological geometry: The Double Torus.

References: Double Torus Hypothesis; original viXra papers:

<http://vixra.org/abs/0909.0005> ; September 1 2009, Authors: Dan Visser, Christopher Forbes, Keith Lees, titled "A Short Article On A Newly Proposed Model Of Cosmology".

<http://vixra.org/abs/0910.0016> ; October 11, 2009; Author Christopher Forbes, titled "Elements of the Mathematical and Phenomenological Twin Tori Model of Physics and Cosmology".

<http://vixra.org/abs/0911.0061> ; November 28 2009, Authors Christopher Forbes, Dan Visser, titled "A New Framework Based on the Quantum Gravity Twin Tori Model of Cosmology (Part 1)".

<http://vixra.org/abs/1010.0013> ; July 2010; Author Dan Visser: Describing the original "Dark Energy Formula Force" in retrospective.

<http://vixra.org/abs/1010.0014> ; July 2010; Author Dan Visser, titled: "Deeper Properties derived from the 1-st derivative of the Dark Energy Formula Force".

<http://vixra.org/abs/1010.0063> ; October 29 2010 Author Dan Visser, titled: "Dark matter and visible matter fundamentally related to a new cosmological model and Recalculated".

<http://vixra.org/abs/1101.0096> ; February 2 2011; Authors Dan Visser, Christopher Forbes, titled: "Entanglement related to cosmology-TTM.

<http://vixra.org/abs/1103.0012> ; March 11 2011; Authors Dan Visser, Christopher Forbes, titled: "Double torus cosmology reveals cosmic background to measure dark energy".

<http://vixra.org/abs/1104.0085> ; April 29 2011; Author Dan Visser, titled: Dark Matter Formula for Fundamental Calculation of Satellite Flybys in Hyperbolic Orbits.

<http://vixra.org/abs/1105.0022> ; May 13 2011 ; Author Dan Visser, titled: Hard theoretical evidence for the dark energy force formula in a double torus universe.

<http://vixra.org/abs/1105.0033>; May 23 2011 ; Author Dan Visser, titled: Discussion needed about three (new) cosmological models based on mathematics and physics.

<http://vixra.org/abs/1107.0017> ; July 10 2011; Author Dan Visser, titled: "Recalculation-mechanism of the Big Bang in a Double Torus Universe".

<http://vixra.org/abs/1107.0042> ; July 22 2011; Author Dan Visser, titled: "Matter over anti-matter in a Double Torus".

<http://vixra.org/abs/1108.0048> ; August 29 2011; Author Dan Visser, titled: "New Value for the Higgs Mass".

<http://vixra.org/abs/1110.0030> ; October 9 2011; Author Dan Visser, titled: "New Dark Energy Formula theoretically calculates Faster-than-light-neutrinos".

<http://vixra.org/abs/1111.0106> ; November 28 2011; Author Dan Visser, titled: "A New Force Smaller Than the Smallest gravity.

<http://vixra.org/abs/1112.0055> ; December 18 2011; Author: Dan Visser. titled: "Higgs-limited Boson Surface (Higgs-LBS) is a Mass-Surface - thus not a singular Higgs-boson - and is related to Faster-Than-Light-Neutrinos".

This new paper will be determined by viXra ; " New Dark Energy and Letter to the Nobel Committee."

Acknowledgement to viXra.

I wrote an appendix for the Nobel Committee attached in an email. The appendix is also a part of this paper and meant to complete the papers the viXra-archive about the Double Torus Cosmology.

APPENDIX: THE NEW DARK ENERGY IN A NEW COSMOLOGY (DOUBLE TORUS UNIVERSE).

The appendix is part of a letter (comment/plead) to the Nobel Committee.

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Date: January 27 2012

Goal of the letter.

This appendix is written for being attached to my email-letter to the Nobel Committee. The letter is a comment (a plead) for changing the way nominations could be done in a New World, because the internet supports the emergence of new ideas in the public domain for the benefit of Physics and Cosmology, as well as in alternative archives, such as the viXra-archive. The established institutions wrestle and criticize this development. However, I think such an important development should not be kept out of the focus of the Nobel Committee, but used by the Committee progressively.

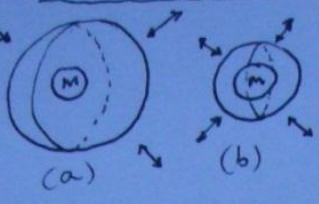
The appendix summarizes what a New Dark Energy is in a New Cosmology (the Cosmology of the Double Torus Universe). Therefore image (fig. 1) is added to start in a nutshell with established Relativity, space-expansion, accelerated space-expansion and the one time-direction in the Big Bang Cosmology (a,b,c,d); the one time-direction is the one time-arrow causing entropy after the start of the Big Bang Cosmology. The summarize is done in order to explain what the difference of the New Dark Energy is compared to the established dark energy.

In the summery "three-why's (e,f,g)" are mentioned and will be answered next: Why are two extra time-directions needed for a New Cosmology? Why is the new dark matter mass, squared? Why would there be a Double Torus for New Cosmology?

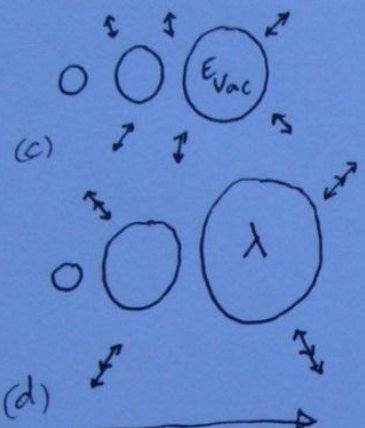
Furthermore is shown: The new dark energy force formula (this is the original formula from the thought-experiment of Dan Visser, Almere,NL) and his transformed version (the same force, which is smaller than the smallest gravity).

In the end, and for the first time published, a New Dark Energy is formulated by the product of New Dark Mass (squared) and Two Extra Time-directions (formulated by Dan Visser, Almere, the Netherlands), which shows the New Dark Energy is going faster in time backwards than the Big Bang one-time-direction is going forward in time.

In words and image, In a nutshell: What is the new dark energy?

Preface:
Relativity → 

↔ space-expansion




↔ space-expansion


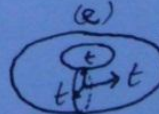
Relativity (3 space-dimensions)
 A larger mass (m) generates a stronger curvature: smaller space (b)
 A smaller mass (m) generates a less stronger curvature: larger space (a) including;

Vacuum-energy drops from $\approx 10^{107} \text{ y} \rightarrow 10^{-15} \text{ y}$, causing space-expansion (constant) ↔ (c) including:
 Cosmological Constant (λ) ↔ causes accelerated space-expansion.
 This is the established dark energy.

one time-direction : Big Bang Cosmology ($t \rightarrow$)

Research Result:
New Dark energy: First: $\begin{matrix} t \\ \downarrow \\ t \end{matrix} \Rightarrow$  one time-direction-extra!

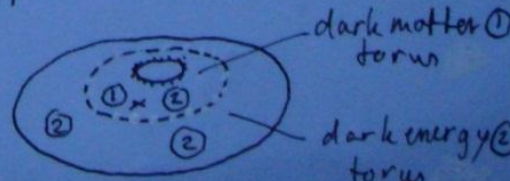
= two time-directions-extra

Why? (e) and one more extra time-direction! \Rightarrow  \Rightarrow  = two time-directions-extra:

- Generating a new dark energy time torus.

Why? (f) Two time-directions-extra introduce two dark-masses as a product $\pm m_{dm}^2$ with the same torus geometry, only smaller than the dark energy torus:

Why? (g) This introduces: the Double Torus of dark energy and dark matter. for New Cosmology



intertwined 1×2

Dan Visser, Almere, NL 27/1/2012

Fig. 1: The new dark energy is a Double Torus geometry existing of a dark energy torus and dark matter torus (intertwined) defined by three time-directions (two more than in Big Bang Cosmology) .

Why are two extra time directions needed for a New Cosmology?

Time-direction is not the same as time-dimension. Since Relativity, classical 3-space has one time dimension relative to a moving system. Relativity also adopted the one time-direction for entropy caused since the Big Bang Cosmology. The single time-direction presents the always going forward time-evolution of the Big Bang universe. However, in the new dark energy definition, two extra time-directions are additional, causing the universe to be subject to a deeper evolution in time. These two extra time-directions emerge from below the Planck scale. That follows from a new dark energy force formula, which in turn emerged from a thought-experiment, that was used to obtain lost information from the past for the benefit of the future, as a simultaneous dynamic for one independent observer, independent of its location in the universe. Such an exercise is performed by 'scaling away' or 'bring-closer' a smaller and larger black hole (including a Planck hole) relative to each other. The emerging result is a new dark energy force being an operator in three time-directions belonging to a Double Torus geometry (reference: the 'viXra-papers').

- Note: The dark energy torus is larger than the dark matter torus, because that follows from the general mathematical equation of the Double Torus described by Christopher Forbes (see the reference-papers).

Why is the new dark mass (squared)?

The dark energy force formula appeared to be existing of the smallest gravity force (Newton) and dark matter mass (squared) to entangle two quantum-spaces per three time-directions. This means that the unitary quantum-dynamics must exist of sub quantum surfaces, holding dark-information available for recalculating the established quantum dynamics. This matter had to be dark, because it is available from the area below the Planck scale. And the matter had to be squared, because it had to fit in the sub quantum surfaces. I rather prefer to have named that: "I"-formation (induced information), because it affects the established quantum dynamics.

Why a Double Torus geometry?

The Double Torus geometry emerges from the dark energy force formula because of its dimensional property and being a force smaller than the smallest gravity. The dimensional property of the latest shows three time-directions. Moreover, the general mathematical equation formulated by Christopher Forbes also emerge a Double Torus geometry.

The new dark energy force.

1. The *original dark energy force formula* (from Dan Visser, Almere, NL), posted on April 10 2004 on his website, is as follows:

$$F_{de} = \pm \frac{c^5 O_e}{2G} m^3 \left[(kgm)^3 \frac{N}{s} \right] \quad (1)$$

De term, m^3 , comprehends visible-and dark matter. The c is light speed, O_e is the Planck-length squared and G is the gravitational-constant of Newton.

Originally I published this formula without the "+" sign.

The general mathematical equation of **Christopher Forbes, UK, Coventry**; and colleague, made that clear as follows (see their involvement in the first three papers of the reference-list of the Double Torus Cosmology):

$$\int (\alpha x^2 + \beta x + \gamma) dx = k, \quad k \in \mathbb{R}, \quad (2)$$

$$\int (0) dx = k, \quad k \in \mathbb{R}$$

$$\int (\alpha x^2 + \beta x + \gamma) dx = \int 0 dx$$

$$\alpha x^2 + \beta x + \gamma = 0,$$

$$\alpha = G, \quad \beta = 0, \quad \gamma = -\frac{1}{4} c^4 (\hbar\text{-bar})^2 m^6 G$$

$$x = \pm \frac{1}{2} c^5 m^3 G^{-1} (L_{\text{Planck}})^2 \quad (3)$$

The “x” is the original dark energy force (from Dan Visser, Almere, NL) with the “+” en “-” sign. Or alternative mathematically described as:

$$\int (\alpha F_{\text{de}}^2 + \gamma) dx = k, \quad k \in \mathbb{R} \quad (4)$$

$$\alpha = G (\approx 6.67 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2})$$

$$\gamma = -\frac{1}{4} c^4 (\hbar\text{-bar})^2 G M^6 (\approx 10^{-61} M^6)$$

Voor $\alpha F_{\text{de}}^2 + \gamma = 0$ volgt:

$$F_{\text{de}} = \pm (L_{\text{Planck}})^2 c^5 M^3 G^{-1} \quad (5)$$

The γ is the amount of dark energy in the Double Torus geometry.

2. *The transformed version of the dark energy force (Dan Visser, Almere, NL), the force smaller than the smallest gravity.*

$$F_{\text{de}} = F(\downarrow \lim)_N [N] \cdot (\pm m_{\text{dm}})^2 \left[\frac{m^3 m^3}{s^3} \right] \text{ with } k = g' \text{ and } F(\downarrow \lim)_N = m_{\text{vm}} k \quad (6)$$

$F(\downarrow \lim)_N [N]$ is the lowest limit of the Newton force at small scale.

$(\pm m_{\text{dm}})^2 \left[\frac{m^3 m^3}{s^3} \right]$ is the dark mass squared affecting the unitary-entangled quantum spaces per

three time-directions. These define a Double Torus geometry.

New Time.

The new time in the Double Torus geometry is:

$$(t \mapsto^3)' = (t \mapsto^1)^{\frac{1}{3}} \cdot (t \mapsto^2)^{\frac{2}{3}} \quad (7)$$

In words: In the Double Torus Universe three time-directions are present (\mapsto^3), one time-direction acting as the established time-direction in the Big Bang (\mapsto^1 out of three) and two time-directions from below the Planck scale (\mapsto^2 out of three).

New dark energy.

Within the framework of the Double Torus the new dark energy formula will be shown as product of the new dark mass (squared) and the extra time-directions from below the Planck scale, as follows:

$$E_{de} = \pm(m_{dm})^2 \cdot (t \mapsto)^{\frac{2}{3}} \left[\frac{m^3 m^3}{s^3} s^{\frac{2}{3}} \right] \quad (8)$$

$$E_{de} = \pm(m_{dm})^2 \cdot (t \mapsto)^{\frac{2}{3}} \left[m^3 m^3 s^{-\frac{4}{3}} \right] \quad (9)$$

Equation (9) is the New Dark Energy.

The new Dark Energy is a product of dark matter mass squared and two extra time-directions from below the Planck scale.

The New Dark Energy performs an energy-existence in a Double Torus Cosmology of dark energy and dark matter. The dark energy torus encloses the dark matter torus. Throughout the whole the Double Torus geometry a dark energy force is the product of the smallest Newton force and dark mass squared. It performs its existence as a force to recalculate the established unitary quantum-entanglement from the inside.

The New Dark Energy is an energy of time to cause two unitary-entangled quantum-spaces going faster backwards in time than time goes forward in the Big Bang Cosmology ! This revises the established quantum dynamics in the present. It means a recalculation-mechanism must exist within the entanglement domain of the elementary particles. This affects the classical reality towards the past and future in a different way than Einstein's General Relativity does.

General Relativity must be also a part of the Double Torus Cosmology, because the dark energy force comprehends a term that represents the Newton Force, although the smallest possible one.

Your sincerely,

Dan Visser