

A map to Unified Grand Model for space time, particles, fields and universe buiilded on a trial mathematical physics interpretation of the holy Quran creation story

Maher Ahmed*

Department of Physics

Ain Shams University

Cairo, Egypt

(Dated: September 6, 2010)

Since early 1980 there is no new discoveries for the basic laws of physics[1], the main problem behind that is the missing of a complete physical description for our universe physics. The concepts of space time, particles (mass), fields, and energy have a big ambiguity in our deep understanding of physics. One of reasons for that is the limitation of our experimental technology in high energy accelerators, and in cosmological observations.

In this research the author follows the creative thinking rules which discovered in the field of human psychology studies[2–4] for solving difficult problems through human specie history. The main idea in creative thinking is to borrow ideas and concepts from fields away from the problems own field, those new ideas and concepts are brought to the field of the problems to help human to go inside the problems and get the solution[5].

Those creative thinking rules are used in solving our problem and completing our understanding of physics concepts. It is found, by applying those rules, that the field of human religions, could help us in solving that problem of physics. The reason for that is the religion gives a creation story for our universe to help the believers to understand the target of their life, physics as well gives us a description of our universe creation, where the physics concepts play a big rule on this creation.

Using the above link, the holy Quran creation story compered to our modern physics theories was selected according to the information theory criteria as postulates for a unified grand mathematical physics model for creation of our universe.

The postulates of this model are given as following:

The universe is closed and consisting of circulating flow space time 4D Riemann manifold fluid. This fluid has no mass or internal energy, and it is similar to water has small viscosity and small compressibility. This fluid represent what is called the quantum vacuum state from which particles and fields are created[6].

The small viscosity is related to Plank constant and it is the origin of quantization principle, also space time viscosity is related to the properties and stability of matters forms. The fluid small compressibility also is related to the speed of light in it.

When energy is disposed in the space time 4D fluid, a turbulence is created which create curvature for frozen fluid flow field, this curvature is measured by curvature 2-form[7–9] in 4D Riemann manifold. The curvature 2-form is function of six independent 2-form basis of any 2-form in 4D manifold. Each one of the six independent 2-form basis represent 2D world sheet surface[10, 11] i.e. six strings in the language of the string theory[12, 13].

It is a Quranic miracle to found that Quran [41:9-13] interpretation, guided by string theory and fluid dynamic, describes the equation of creating particles and its fields that solve all problems found in string theory and other unified theories and give answers to most physics puzzles we know. For example, the model is presenting a new unique way to keep the space-time with 4D dimensions while give six strings needed to construct the standard model of particles and fields[12].

The model describe the particles as 4D vortexes coming from the interaction of the six strings, where the vortexes topology can represented by knots[14–16], which can be used to get all possible knots configurations to obtain the standard model particles found in similar research [17, 18].

The particles are energy localized by vortexes which broke the symmetry of fluid flow. All particles properties is no more than the 4D vortexes properties like spin, mass, charge, and helicity etc. While fields are distortion in fluid flow field coming from the six strings interaction configurations.

Hand waving derivation map, using the geometrical theory for fluid flow[7, 8, 14, 15], is given for grand unified equation for energy(particles, fields, distortions) as function of curvature geometry due to six 2-forms strings interaction in viscus space time 4d fluid, which found to be related to the behavior of geodesic variation vector field for stable flow.

The model is used to give reasonable answers for most of known physics and cosmology puzzles.

* maher2100@gmail.com

I. THE TROUBLE WITH PHYSICS

A. Introduction

Physics in trouble[19][1], since early 1980 there is no deep new discoveries for the basic laws of physics, which is reflecting our ignorance for the truth of our existence in this universe. This trouble is effecting all humanity progress in understanding and enhancing of their life.

Physics[20] is one of the most basic human knowledge, it is the collection of all accumulated quantitative and qualitative facts and models for how this universe work, those facts are accumulated by all the human civilizations through their history in the earth.

Equipped with very sophisticated nervous system, human have been able to acquire those physics knowledge with their learning mechanisms through observations, experimental, abstracting, and mathematical capabilities[2, 21], the scientific methodology used to gain physics knowledge build on those capabilities, first observations and experiments are used to get facts, then abstracting of those facts used with mathematical capabilities to build the models which then tested by new experiments. Then those experimental verified models are used to design and engineering the facilities for enhancing the human welfare.

So the main keys in the physics scientific methodology are the observations and experiments, this is very clear since we try to discover actually how this true universe created and work.

But we try to use abstracting of our physics knowledge, imaginations and mathematical capabilities to build models for our universe. Until now, those models contradict with our observations and experiments or we do not able to verified them or their predictions by experiments like string theories[1].

There are many conflicts between all proposed models for the universe which already contradict with our observations and experiments, we still belief in existing of only one true model to describe our existent universe, this model fit the all experimental facts we know, and give us predictions that could be tested experimentally easily. This research is a trial to know a new way to get it.

B. What are the reasons for Physics trouble

To try solving the Physics trouble we need to know what are the reasons for it. It is clear that the reasons coming from the limitation of our observations and experiments, and the absence of complete physical picture for our physics facts.

Our observations and experiments are limited by technology, this technology already has limitation due to our lake of knowledge for the complete truth of our existence

universe. It is a close cycle, more we know about existence universe more advanced technology we get, which then help us to know more about the universe. This means we arrived to the point where our physics knowledge do not bush our technology fast enough to help us discover new basics physics laws for last twenty years.

In other hand, since the beginning of Quantum physics, human do not have a complete physical picture for physics facts, they only know the buttons and their function for the black box of our existence universe physics[22], they can make experiments and calculations without understanding the complete picture, for example until now there is no complete understanding for reason of quantization, or even the gauge invariance principals [13, 23] which the standard model builded on.

I belief those are the main reasons behind the trouble in physics of basic laws today. In the other fields of physics [1] like condensed matter the progress is high, since basic laws are used as principles without need for their complete understanding, and there is more complete picture for the physics of materials, and more important there is a technology that help this progress.

C. How we can solve Physics trouble

To solve the physics trouble, we need to understand from psychology how human kind always able to challenge very difficult troubles through their history. One of the main cognitive ability that help human to solve difficult problems is the creative thinking skill [2–4].

Creative thinking is “A cognitive activity that result in a new or novel way of viewing a problem or situation. Which is result of using divergent thinking to break normal schemas and generating novel ideas that away from normal”. Which according to Chi (1997) “Being able to apply concepts or propositions from one domain to another unrelated domain in the way to produce a new insight” [2].

The process of creative thinking behind most big through solutions in human history, for example Archimedes solution of Golden Crown problem, and in modern physics history [5] there are for example Albert Einstein solution for photoelectric effect, discovery of Schrdinger equation, so that most of our historically important inventions and discoveries come from our creative thanking ability.

The main step in the creative thanking is applying the concepts or propositions from one human knowledge domain to another unrelated field problems. In our case the target field problem is the physics trouble for discovering and understanding basics laws for our universe creation.

D. What is the other domain of knowledge we need?

The question is, what is the other domain of knowledge we need to solve the physics trouble?. In other way what are the human activities other than physics which give answers to the questions of how our universe is created and work?.

The only human domain that gives answers to those questions other than physics is the religion, which can be defined by “A set of beliefs concerning the cause, nature, and purpose of the universe, esp. when considered as the creation of a superhuman agency or agencies, usually involving devotional and ritual observances, and often containing a moral code governing the conduct of human affairs” [24].

So every religion gives us creation story[25] for universe and for the human been, where this story helps the believer to understand the purpose of his/her life, death and to gives the believer his/her final destination.

The question for our purpose in physics field is could we as physicists use the religion creation story as postulates for physical model that could be tested experimentally?.

In other way could the religion methodology, the revelations from the creator[21], used to overcome the reasons of physics trouble, i.e. could religion creation story gives us the complete physical picture for our universe physics facts without need of technology out of our ability, and gives us predictions that could be tested experimental?.

This make us exclude atheism in this research, since already this belief has not creation story which is putting us in same physics trouble. Actually atheism is contradict with our universe physics facts. It is contradict with causality and the existence of physics laws discovered until now[26].

E. Which creation story?!

“No wonder religion is part of human nature. Our brains are primed for it” Michael Brooks[27] summarizing the research result on children that they spontaneously develop the concept of god without adult intervention, this explain why 84% of people in the world believe in a supernatural force of some kind[27], and also explain the huge number of religions on the earth with huge number of creation stories [28].

Which creation story should we choose to make our model?. Since the creation story is information transmitted through human society (Information communication channel) from the source of the story to us trough time and place, we can use some rules from information theory[29] to make our selection of creation story easily.

First rule, it should be traceable to prophet or originator which refers to the completeness of the information transmission through protected communication channel

with minimum noise, which provide us with trusted creation story in the same original language of the prophet. Second rule, after trusting the traceability of the creation story, its selected religion should be self consistent, which mean that it should be not contradict with itself or with universe physics facts gained by observations and experiments,

Although, any modern claims of prophethood or any modern claims of communication with the creator “god” has the first rule which is traceability to the originator, they did not provide us with creation story. As physicists, we should ask any persons or groups, who are claiming to be in communication with god to provide us with the true creation story which could be formulated in mathematical physics language and can be tested with astronomical observation and experiments on earth, only in this case we will accept their claims and asking the people to follow them.

Applying the second rule to many gods religions, we found that those religions have two problems, first they are contradict with unity and integration we see in the physics i.e. how gods have agreement on controlling the world with harmony and integration reflected in physics laws. Second the existent of many gods raise the questions where they come from and also how many of the same gods there which did not contributed to our universe creation. all those concerns make the many gods religions creation stories inconsistency with physics we know.

So far our physics knowledge with information theory rules guide us to monotheistic religions, by applying the two rules in the following sections, It is found that Islam religion with holy Quran[30–32] is most suitable candidate for our Physics research peropus.

Islam religion

Islam religion has three very important characterizations for our peropus in this research. First Islam claims the finality of prophethood[33] by prophet Muhammad “Praiseworthy” in Quran 33:40, which for our peropus mean reducing the search for creation story to the Islam as final message. Second Islam claims that the main miracle “sign” of the prophet Muhammad is the Quran in Arabic language, which is granted to preserved by god Quran 15:9, for our peropus this insure that source of creation story is authentic by Islam[34]. Third that this message to all mankind Quran 34:28 [33] not restricted to certain race or group of people, for our peropus that mean that all mankind have the right to study and read the Quran.

That is amazing to know that according to Quran that god ask mankind to search how god create the creation in many places in Quran for example Quran 29:20, not only that but this searching is considered by god as very rewardable warship to him for example

“Control of the heavens and earth belongs to God; God has power over everything. 190. There truly are signs in the creation of the heavens and earth, and in the alterna-

tion of night and day, for those with understanding 191. who remember God standing, sitting, and lying down, who reflect on the creation of the heavens and earth: Our Lord! You have not created all this without purpose- You are far above that!- so protect us from the torment of the Fire” Quran 3:189-191.

II. TRACEABILITY OF ISLAMIC RELIGION WITH HOLY QURAN

To study the traceability of Islamic religion and the holy Quran, we have to follow the history time line and verify the first rule from information theory.

Beginning with very hard and poor desert there were some scattered and fighting tribes with small number of cities without central government, those tribes worshiping idols. This very poor statues did not make the two big strong neighbors Sassanid Persian and Byzantine Roman empires interest on this area.

In this poor desert at 610 AD the first revelation in the cave at Mt. Hira. in Mecca to the prophet Muhammad, who is commissioned as the last messenger of God and in 622 AD the prophet Muhammad and the muslims migrated to Yathrib to establish the islamic state. And in 632 AD the prophet Muhammad Farewell pilgrimage at Makkah, and his death. In this period thousands and hundred of thousand become believers thousands of them memorize the whole Quran or most of it, after the prophet death his close followers made a committee to collect the written Quran and to a complete standard copy of holy Quran, and then they spread canonical copies from this standard to all muslim society[34], such that the oral copy company the written copy. Meanwhile the islamic state become so powerful and Muslim conquests (632-732) was a century of rapid expansion of Muslim power as

Edward Gibbon writes in the History of the decline and fall of the Roman Empire: “Under the last of the Omniades, the Arabian empire extended two hundred days’ journey from east to west, from the confines of Tartary and India to the shores of the Atlantic Ocean. And if we retrench the sleeve of the robe, as it is styled by their writers, the long and narrow province of march of a caravan. We should vainly seek the indissoluble union and easy obedience that pervaded the government of Augustus and the Antonines; but the progress of Islam diffused over this ample space a general resemblance of manners and opinions. The language and laws of the Qur’an were studied with equal devotion at Samarcand and Seville: the Moor and the Indian embraced as countrymen and brothers in the pilgrimage of Mecca; and the Arabian language was adopted as the popular idiom in all the provinces to the westward of the Tigris.”

And since then the large Islamic state exists their over huge area on the earth continuously over time and place, It exist by the muslim peoples, Islamic believe, holy

Quran and the Arabic Language. In this moment the Islam is the fastest growing religion in the world[35].

For the first rule, we see the formation of protected communication route which is the islamic state since its beginning by prophet Muhammad until now, this route started with thousand of channels carrying the oral and written message of Islam and Quran with the same arabic language, to now millions of channels carry the same original message, we can as information theory [29] tell us checking the message by comparing the different channels and trace it to original ones, actually this is part from Islamic science called “Isnad” traceability which agree with information theory.

III. PHYSICS OF ISLAM RELIGION

For checking second rule, the selected religion should be self consistent from physics point of view.

we will depend on few examples from Quran to understand the islamic belief rules or physics

1. *Allh “GOD” is the only one and no one is comparable to*

Him

“Say, He is God the One, (2) God the eternal. (3) He begot no one nor was He begotten. (4) No one is comparable to Him.” [112:1-4]

(11) the Creator of the heavens and earth.’ He made mates for you from among yourselves-and for the animals too-so that you may multiply. There is nothing like Him: He is the All Hearing, the All Seeing.[42:11]

“He is God: there is no god other than Him. It is He who knows what is hidden as well as what is in the open, He is the Lord of Mercy, the Giver of Mercy. (23) He is God: there is no god other than Him, the Controller, the Holy One, Source of Peace, Granter of Security, Guardian over all, the Almighty, the Compeller, the Truly Great; God is far above anything they consider to be His partner. (24) He is God: the Creator, the Originator, the Shaper. The best names belong to Him. Everything in the heavens and earth glorifies Him: He is the Almighty, the Wise.”

“He is the First and the Last [without a beginning and without an end independent of his creation(space-time)]; the Outer and the Inner; He has knowledge of all things.”

(255) God: there is no god but Him, the Ever Living, the Ever Watchful. Neither slumber nor sleep overtakes Him. All that is in

the heavens and in the earth belongs to Him. Who is there that can intercede with Him except by His leave? He knows what is before them and what is behind them, but they do not comprehend any of His knowledge except what He wills. His throne extends over the heavens and the earth; it does not weary Him to preserve them both. He is the Most High, the Tremendous. (256) There is no compulsion in religion: true guidance has become distinct from error, so whoever rejects false gods and believes in God has grasped the firmest hand-hold, one that will never break. God is all hearing and all knowing.(257) God is the ally of those who believe: He brings them out of the depths of darkness and into the light. As for the disbelievers, their allies are false gods who take them from the light into the depths of darkness, they are the inhabitants of the Fire, and there they will remain.[2:254-257]

2. *He is the creator of every thing*

“This is God, your Lord, there is no God but Him, the Creator of all things, so worship Him; He is in charge of everything”. [6:102]

(16) Say [Prophet], Who is Lord of the heavens and the earth?’ Say, God.’ Say, Why do you take protectors other than Him, who can neither benefit nor harm even themselves?’ Say, Are the blind equal to those who can see? And are the depths of darkness equal to the light?’ Have the partners they assign to God created anything like His creation so that their creation is indistinguishable from His? Say, God is the Creator of all things: He is the One, the All Compelling.’

(62) God is the Creator of all things; He has charge of everything [39:62]

(62) Such is God your Lord, the Creator of all things: there is no god but Him. How can you be so deluded? [40:62]

3. *The creation process*

“Are the disbelievers not aware that the heavens and the earth used to be joined together and that We ripped them apart, that We made every living thing from water? Will they not believe?” [21:30]

And when Abraham said, My Lord, show me how You give life to the dead,’ He said, Do you not believe, then?’ Yes,’ said Abraham, but just to put my heart at rest.’ So God said, Take four birds and train them to come back to you. Then place them on separate hilltops, call them back, and they will come flying to you: know that God is all powerful and wise.’[2:260]

“It is He who created the heavens and the earth in six Days His throne over the waters too-so as to test which of you does best. Yet [Prophet], if you say to them, You will be resurrected after death,’ the disbelievers are sure to answer, This is clearly nothing but sorcery.”

“Your Lord is God, who created the heavens and earth in six Days, then established Himself on the throne; He makes the night cover the day in swift pursuit; He created the sun, moon, and stars to be subservient to His command; all creation and command belong to Him. Exalted be God, Lord of all the worlds!” [7:55]

In the creation of the heavens and earth; in the alternation of night and day; in the ships that sail the seas with goods for people; in the water which God sends down from the sky to give life to the earth when it has been barren, scattering all kinds of creatures over it; in the changing of the winds and clouds that run their appointed courses between the sky and earth: there are signs in all these for those who use their minds. (165)[2:165]

“There truly are signs in the creation of the heavens and earth, and in the alternation of night and day, for those with understanding 191. who remember God standing, sitting, and lying down, who reflect on the creation of the heavens and earth: Our Lord! You have not created all this without purpose- You are far above that!- so protect us from the torment of the Fire” [3:189-191].

Your Lord is God who created the heavens and earth in six Days[258], then established Himself on the Throne, governing everything; there is no one that can intercede with Him, unless He has first given permission: this is God your Lord so worship Him. How can you not take heed? (4)[10:4]

In the succession of night and day, and in what God created in the heavens and earth, there truly are signs for those who are aware of Him.(7) [10:6]

He created the heavens without any visible support, and He placed firm mountains on the earth in case it should shake under you and He spread all kinds of animals around it. We sent down water from the sky, with which We made every kind of good plant grow on earth: (11) all this is God's creation. Now, show Me what your other gods have created. No, the disbelievers are clearly astray.[31:10-11]

It is God who created the heavens and the earth and everything between them in six Days. Then He established Himself on the Throne. You [people] have no one but Him to protect you and no one to intercede for you, so why do you not take heed? [32:4]

Say, How can you disregard the One who created the earth in two Days? How can you set up other gods as His equals? He is the Lord of all the worlds! (10) He placed solid mountains on it, blessed it, measured out its varied provisions for all who seek them all in four Days. (11) Then He turned to the sky, which was smoke. He said to it and the earth, 'Come into being, willingly or not,' and they said, 'We come willingly' (12) and in two Days He formed seven heavens, and assigned an order to each. We have made the nearest one beautifully illuminated and secure. Such is the design of the Almighty, the All Knowing. (13)[41:9-13]

Praise be to God, Creator of the heavens and earth, who made angels messengers with two, three, four wings. He adds to creation as He will: God has power over everything.[35:1]

It is God who created seven heavens and a similar [number] of earths. His command descends throughout them. So you should realize that He has power over all things and that His knowledge encompasses everything.[57:4]

who created the seven heavens, one above the other. You will not see any flaw in what the Lord of Mercy creates. Look again! Can you see any flaw?[67:3]

(4) It is God who created the heavens and the earth and everything between them in six Days. Then He established Himself on the Throne. You [people] have no one but Him to protect you and no one to intercede for you, so why do you not take heed? (5) He runs everything, from the heavens to the earth, and everything will ascend to Him in the end, on a Day that will measure a thousand years in your reckoning. (6) [32:4-6]

It was He who created the heavens and earth in six Days and then established Himself on the throne. He knows what enters the earth and what comes out of it; what descends from the sky and what ascends to it. He is with you wherever you are; He sees all that you do;[57:4]

Do the disbelievers not understand that God, who created the heavens and earth and did not tire in doing so, has the power to bring the dead back to life? Yes indeed! He has power over everything.[46:33]

We have created all things in due measure;[54:49]

(47) They will challenge you [Prophet] to hasten the punishment. God will not fail in His promise- a Day with your Lord is like a thousand years by your reckoning.[22:47]

165. Even so, there are some who choose to worship others besides God as rivals to Him, loving them with the love due to God, but the believers have greater love for God. If only the idolaters could see- as they will see when they face the torment- that all power belongs to God, and that God punishes severely. [25:165]

It is He who has control over the heavens and earth and has no offspring no one shares control with Him and who created all things and made them to an exact measure (Quantum).[25:2]

We created the heavens, the earth, and everything between, in six Days without tiring.[50:38]

58. God is the Provider, the Lord of Power (unity of forces sources) , the Ever Mighty. [51:58]

(4) It is God who created the heavens and the earth and everything between them in six Days. Then He established Himself on the Throne. You [people] have no one but Him to protect you and no one to intercede for you, so why do you not take heed? (5) He runs everything, from the heavens to the earth, and everything will ascend to Him in the end, on a Day that will measure a thousand years in your reckoning [32:4-5]

We built the heavens with Our power and made them vast, (48) We spread out the earth- how well We smoothed it out!- (49) and We created pairs of all things so that

you [people] might take note. (50) [So, say to them, Prophet], Quickly, turn to God- I am sent by Him to give you clear warning- (51) and do not set up any other god alongside Him. I am sent by Him to give you clear warning! [51:47-51]

On that Day, We shall roll up the skies as a writer rolls up [his] scrolls. We shall reproduce creation just as We produced it the first time: this is Our binding promise. We shall certainly do all these things. (105)[21:105]

4. *Human creation*

who gave everything its perfect form. He first created man from clay, (8) then made his descendants from an extract of underrated fluid. (9) Then He moulded him; He breathed from His Spirit into him; He gave you hearing, sight, and minds. How seldom you are grateful! (10) [32:7]

So [Prophet] as a man of pure faith, stand firm and true in your devotion to the religion. This is the natural disposition God instilled in mankind- there is no altering God's creation- and this is the right religion, though most people do not realize it. [30:30]

[Prophet], when your Lord took out the offspring from the loins of the Children of Adam and made them bear witness about themselves, He said, Am I not your Lord?' and they replied, Yes, we bear witness.' So you cannot say on the Day of Resurrection, We were not aware of this,' (173) or, It was our forefathers who, before us, ascribed partners to God, and we are only the descendants who came after them: will you destroy us because of falsehoods they invented?' [7:172-173]

5. *The main advantage of human*

Equipped with very sophisticated nervous system, human able to acquire knowledge with their learning mechanisms, upon that knowledge human take their decisions with their free will

[Prophet], when your Lord told the angels, I am putting a successor on earth,' they said, How can You put someone there who will cause damage and bloodshed, when we celebrate Your praise and proclaim Your holiness?' but He said, I know things you do not.' (31) He taught Adam all the names [of

things], then He showed them to the angels and said, Tell me the names of these if you truly [think you can].' (32) They said, May You be glorified! We have knowledge only of what You have taught us. You are the All Knowing and All Wise.' (33)[2:31-33]

Read! In the name of your Lord who created: (2) He created man from a clinging form. (3) Read! Your Lord is the Most Bountiful One (4) who taught by [means of] the pen, (5) who taught man what he did not know. (6)[96:1-6]

(1) It is the Lord of Mercy (2) who taught the Quran.(3) He created man (4) and taught him to communicate. (5)[55:1-5]

6. *Human has free will*

Say, People, the Truth has come to you from your Lord. Whoever follows the right path follows it for his own good, and whoever strays does so to his own loss: I am not your guardian.' (109)[10:109]

7. *The purpose of human creation*

I created jinn and mankind only to worship Me: (57) I want no provision from them, nor do I want them to feed Me- (58) God is the Provider, the Lord of Power, the Ever Mighty.(59)[51:57-59]

Say, My prayers and sacrifice, my life and death, are all for God, Lord of all the Worlds; (163) He has no partner. This is what I am commanded, and I am the first to devote myself to Him.' (164) Say, Should I seek a Lord other than God, when He is the Lord of all things?' Each soul is responsible for its own actions; no soul will bear the burden of another. You will all return to your Lord in the end, and He will tell you the truth about your differences. (165) It is He who made you successors on the earth and raises some of you above others in rank, to test you through what He gives you. [Prophet], your Lord is swift in punishment, yet He is most forgiving and merciful.[6:163-165]

“Control of the heavens and earth belongs to God; God has power over everything. 190. There truly are signs in the creation of the heavens and earth, and in the alternation of night and day, for those with understanding 191. who remember God standing, sitting,

and lying down, who reflect on the creation of the heavens and earth: Our Lord! You have not created all this without purpose- You are far above that!- so protect us from the torment of the Fire” [3:189-191].

8. *The peropus of human life in Earth*

who created death and life to test you [people] and reveal which of you does best He is the Mighty, the Forgiving [67:2]

Remember when Abraham said to his father, Azar, How can you take idols as gods? I see that you and your people have clearly gone astray.’ (75) In this way We showed Abraham [God’s] mighty dominion over the heavens and the earth, so that he might be a firm believer. (76) When the night grew dark over him he saw a star and said, ‘This is my Lord,’ but when it set, he said, ‘I do not like things that set.’ (77) And when he saw the moon rising he said, ‘This is my Lord,’ but when it too set, he said, ‘If my Lord does not guide me, I shall be one of those who go astray.’ (78) Then he saw the sun rising and cried, ‘This is my Lord! This is greater.’ But when the sun set, he said, ‘My people, I disown all that you worship beside God. (79) I have turned my face as a true believer towards Him who created the heavens and the earth. I am not one of the polytheists.’ (80) His people argued with him, and he said, ‘How can you argue with me about God when He has guided me? I do not fear anything you associate with Him: unless my Lord wills [nothing can happen]. My Lord encompasses everything in His knowledge. How can you not take heed? (81) Why should I fear what you associate with Him? Why do you not fear to associate with Him things for which He has sent you no authority? Tell me, if you know the answer, which side has more right to feel secure? (82) It is those who have faith, and do not mix their faith with idolatry,[187] who will be secure, and it is they who are rightly guided.’ (83) Such was the argument We gave to Abraham against his people- We raise in rank whoever We will- your Lord is all wise, all knowing. (84)[6:74-84]

And when Abraham said, ‘My Lord, show me how You give life to the dead,’ He said, ‘Do you not believe, then?’ ‘Yes,’ said Abraham, ‘but just to put my heart at rest.’ So God said, ‘Take four birds and train them to come back to you. Then place them on separate

hilltops, call them back, and they will come flying to you: know that God is all powerful and wise.’[2:260]

(5) It is You we worship; it is You we ask for help. (6) Guide us to the straight path: (7) the path of those You have blessed, those who incur no anger and who have not gone astray.[1:5-7]

9. *The result of the life (test)*

God does not forgive the worship of others beside Him- though He does forgive whoever He will for lesser sins- for whoever does this has gone far, far astray. (117) In His place the idolaters invoke only females, and Satan, the rebel (118) God rejected, who said, ‘I will certainly take my due share of Your servants; (119) I will mislead them and incite vain desires in them; I will command them to slit the ears of cattle;[150] I will command them to tamper with God’s creation.’ Whoever chooses Satan as a patron instead of God is utterly ruined: (120) he makes them promises and raises false hopes, but Satan’s promises are nothing but delusion. (121) Such people will have Hell for their home and will find no escape from it, (122) but We shall admit those who believe and do good deeds into Gardens graced with flowing streams, there to remain for ever a true promise from God. Who speaks more truly than God?(123)[4:116-123]

When death comes to one of them, he cries, ‘My Lord, let me return (100) so as to make amends for the things I neglected.’ Never! This will not go beyond his words: a barrier stands behind such people until the very Day they are resurrected. (101) On that Day when the Trumpet is blown, the ties between them will be as nothing and they will not ask about each other:(102) those whose good deeds weigh heavy will be successful, (103) but those whose balance is light will have lost their souls for ever and will stay in Hell- (104) the Fire will scorch their faces and their lips will be twisted in pain. (105) Were My messages not recited over and over to you and still you rejected them?’ (106) They will say, ‘Lord, our waywardness overcame us and we went astray. (107) Lord, take us away from this and if we go back to our old ways, then we shall really be evildoers.’ (108) He will say, ‘Away with you! In you go! Do not speak to Me! (109) Among My servants there were those who said, ‘Lord, We believe. Forgive

us and have mercy on us: You are the most merciful of all. (110) But you kept on laughing at them: so intent were you on laughing at them that it made you forget My warning. (111) Today I have rewarded them for their patience: it is they who will succeed.’ (112) He will say, How many years were you on earth?’ (113) and they will reply, We stayed a day or a part of a day, but ask those who keep count.’ (114) He will say, You stayed but a little, if you had only known. (115) Did you think We had created you in vain, and that you would not be brought back to Us?’ (116) Exalted be God, the true King, there is no god but Him, the Lord of the Glorious Throne! Whoever prays to another god alongside Him- a god for whose existence he has no evidence- will face his reckoning with his Lord. Those who reject the truth will not prosper. (118) Say [Prophet], Lord, forgive and have mercy: You are the most merciful of all.’[22:99-118]

(103) Say [Prophet], Shall we[352] tell you who has the most to lose by their actions, (104) whose efforts in this world are misguided, even when they think they are doing good work? (105) It is those who disbelieve in their Lord’s messages and deny that they will meet Him.’ Their deeds come to nothing: on the Day of Resurrection We shall give them no weight. (106) Their recompense for having disbelieved and made fun of My messages and My messengers will be Hell. (107) But those who believe and do good deeds will be given the Gardens of Paradise. (108) There they will remain, never wishing to leave. (109) Say [Prophet], If the whole ocean[353] were ink for writing the words of my Lord, it would run dry before those words were exhausted’- even if We were to add another ocean to it. (110) [18:1103-110]

10. *The last Prophet and excellent model for Islam*

And we have sent you O Muhammad, not but as a mercy for humankind and all that exists. [21:107]

Surely, you (O Muhammad) are upon a high standard of moral character. [68:4]

“The Messenger of God is an excellent model for those of you who put your hope in God and the Last Day and remember Him often.” [33:21]

Say, If you love God, follow me, and God will love you and forgive you your sins; God is most forgiving, most merciful.’[3:31]

Say, I am only a human being, like you, to whom it has been revealed that your God is One. Anyone who fears to meet his Lord should do good deeds and give no one a share in the worship due to his Lord.[18:110]

Muhammad is not the father of any one of you men; he is God’s Messenger and the seal of the prophets: God knows everything. [33:40]

11. *The Holy Quran*

We have sent down the Quran Ourselves, and We Ourselves will guard it.[15:9]

This is the Scripture in which there is no doubt, containing guidance for those who are mindful of God, [2:2]

A revelation from the Lord of Mercy, the Giver of Mercy; 3. a Scripture whose verses are made distinct as a Quran in Arabic for people who understand, [41:2-3]

(52) Say [Prophet], Have you ever thought, what if this revelation really is from God and you still reject it? Who could be more astray than someone who cuts himself off so far [from God]?’ (53) We shall show them Our signs in every region of the earth and in themselves, until it becomes clear to them that this is the Truth. Is it not enough that your Lord witnesses everything? (54) Truly, they doubt that they will meet their Lord; truly He encompasses everything.[41:52-54]

if you find rejection by the disbelievers so hard to bear, then seek a tunnel into the ground (particles accelerator experiments) or a ladder into the sky (cosmology observation), if you can, and bring them a sign: God could bring them all to guidance if it were His will, so do not join the ignorant.[6:35]

A. **The interpretation for the Quran creation story**

To understand Quran creation story we need first to know the Quran structure, according to Abdel Haleem[36], who his English translation of Quran is used in this research

“The Quran has its own style. It may be useful to readers to mention some of the important features of this

style. The reader should not expect the Quran to be arranged chronologically or by subject matter. The Quran may present, in the same sura, material about the unity and grace of God, regulations and laws, stories of earlier prophets and nations and the lessons that can be drawn from these, and descriptions of rewards and punishments on the Day of Judgement.”

For the scientific facts, to be protected from either misunderstanding due to human missing physical facts in their times or their time wrong scientific information, have been encoded in arabic language and scattered through whole Quran, such that there is no one chapter contains for example the whole universe creation story or the whole human creation story. Those scientific facts are only uncovered by human when they have the basics scientific background to understand it and become one of many proofs [30] that the Quran is the true creator message to human been as It has been shown by many authors[28, 37] that many Quran verses (Signs), agree with modern firm scientific facts. It is clear that in Quran the richness of arabic language and the symmetry principle, which is one description used for many scientific facts, have been used to encode those facts, and make The Quran compact and rich, so every time we read Quran, new facts are uncovered to us in every field of life.

So for our research, first we need to collect as possible all parts of creations story, second we have to arrange those parts in chronologically order, only in this case we have the possible complete creation story, that what I have been done as possible above. Then we have to search in Quran not for formulas of symbolic algebra, but precision physical description that easily could be formulated in our modern qualitative symbolic algebra, this will lead us to more understanding of the creation process of our universe.

This mean that for us to decoded this verses, we have to use the arabic language, to understand the verses and to compare this understanding with recent scientific research, trying to find out the meaning and to complete the missing parts in our scientific, knowledge.

I will summaries my interpretation for the Quran creation story without going to arabic language terms explanation and refereeing to physics literatures used in this interpretation, but the reader can check this understanding and interpretation by compering it with the Quran verses mentioned above and physics literatures used on it.

B. Physics of Holy Quran creation story

The creator Allah the one, alone him, him alone (there no language[38] to describe no space no time no energy no thing any thing, There is nothing like Him) only him, by his mercy he begin the creation by creating water like media, i.e. a fluid, without any raw materials, alone him Allah the one, who do not need raw materials to create

He is the only true creator, the rules and laws of this universe created by him and not to be apply on him, there is nothing like Him, Allah the one. This fluid is a four dimension fluid like water in properties i.e. has very low viscosity and very low compressibility. This 4D fluid[39, 40] is the base or raw materials for all creations i.e. matters, antimatter, fields, and energy. This 4d fluid is no more than space time continuum (alternation of night and day)[6, 17, 41], it has no mass but has very low viscosity and very low compressibility, because this fluid do not have mass it is not have a thermal conductivity by its own or dispassion for energy, and its pressures depends on space time density. This Fluid is flow in time direction with the speed of light [42](the fluid speed of sound) circulating in closed universe i.e. the flow is continuous.

117. He is the Originator of the heavens [fields] and the earth [matter], and when He decrees something, He says only, ‘Be,’ and it is.

When He decreed the creation of heavens [fields] and the earth [matter], he says ‘Be,’ a huge energy deposited in the center point of fluid universe make a disturbance in the fluid flow, i.e. turbulence, that creating expanding, compressing, and shearing process, those process make the joined domain of water ripped into two regions, “a 4D vortex (earth, matter) a connected fluid region with high concentration of vorticity compared with its surrounding (heavens, fields)”[15]. The vortexes forms, stability, interaction, and breakdown (decay) are closely related to the fluid properties, and in case of unsteady vorticity field, a sound “light” known as vortex sound “light” is generated[15].

Since space-time is 4D Riemannian manifold fluid, the three process of disturbance create six 2D surfaces “two form in differential geometry language” (days, periods, strings)[7, 15], Those six 2D surface disturbance propagate in the fluid and carry the energy, in case the energy is enough the six 2D surface interacts to form the 4D vortex (earth, matter) and its surrounding (heavens, fields)[12]. The 4D vortex vorticity two form represents rotational transformation of fluid velocity frozen field with Riemannian surface curvature due to the interaction of those six string[7–12], and since it is a frozen vorticity velocity fluid field there is no torsion. The six string divided to four string with equal strength 3 space and 1 time in the direction of the fluid flow with speed of sound “c” and two equal string mixing time with space in space direction much less strength. There are three generations of vortices families, the first one formed by all the combinations of 2 strings “form for example sphere”, those strings may be called core strings, while must of energy and stability of vortex come from the other combinations of the 4 strings (form for example T^4 or stay open) may be called stability strings, the interaction between all the possible pairs between the core strings with stability string create seven manifold coming from the distortion in the

flow field surrounding vertex core those distortions called heavens [fields] or the forces due to the vortex. For the second generations of vortices the core strings become 3 combination of strings and stability become 3 strings, in the third generations of vortices the core strings become 4 combination of strings and stability become 2 strings[12].

IV. MATHEMATICAL PHYSICS MODEL

To build the mathematical physics model, we need first to get the viscous 4D space-time fluid properties from experimental data reflected in our experimental physical constants which with help of dimensional analysis could give us those properties, with insure that our fluid like water.

A. The viscous 4D space-time fluid properties

The most important properties is the viscosity, since we have in general two kind of viscosities coefficients, the Shear viscosity(Dynamic viscosity) and bulk viscosity with same dimensions and units, but since the fluid not having mass, at least one will not depends only on space time which usually called Kinematic viscosity, and the second one convert energy to distortion in space time volume which called bulk viscosity.

For bulk viscosity ζ , use the next dimensional analysis we get

$$\begin{aligned}
 \zeta &= kg \cdot m^{-1} \cdot s^{-1} \\
 &= (kg \cdot m^2 s^{-2}) m^{-1} s^{-1} m^{-2} s^2 \\
 &= J \cdot s \cdot m^{-3} \\
 &= \hbar \cdot m^{-3} \\
 &= \hbar \cdot \lambda^{-3}
 \end{aligned} \tag{1}$$

it is clear that plank constant \hbar express the quantum of energy due distortion of time in space volume, here we can consider λ as wavelength of vortex motion linked to the energy localized in the vortex, and for light wavelength, in case of light it is express the energy propagator with disturbance.

For Kinematic viscosity ν , use the next dimensional analysis we get

$$\begin{aligned}
 \nu &= m^2 s^{-1} \\
 &= m^2 s^{-1} s^{-1} s^1 \\
 &= m^2 s^{-2} s^1 \\
 &= c^2 s^1 \\
 &= \frac{c^2}{\omega} = \frac{1}{\mu_o \epsilon_o \omega}
 \end{aligned} \tag{2}$$

Kinematic viscosity measure the distortion of space surface per time change, here the $\mu_o \epsilon_o$ represent may be some fluid properties, may be mechanical[43], Where ω vortex frequency. We may write Dynamic viscosity

$$\eta = \nu \alpha \text{ kg} \cdot m^{-1} \cdot s^{-1} \tag{3}$$

where α to be determined by using the calculation

we can consider the ratio between bulk viscosity to Kinematic viscosity to equal to the mass density i.e. energy as mass density

$$\rho = \frac{\zeta}{\nu} = \frac{\hbar \cdot \lambda^{-3} \omega}{c^2} \tag{4}$$

We can use this mass density to calculate the mass contains in space volume

$$\begin{aligned}
 m &= \rho x^3 \\
 m &= \frac{\zeta}{\nu} x^3 \\
 m &= \frac{\zeta}{\nu} \lambda^3 \\
 m &= \frac{\hbar \cdot \lambda^{-3} \omega}{c^2} \lambda^3 \\
 m &= \frac{\hbar \cdot \omega}{c^2} \\
 mc^2 &= \hbar \cdot \omega \\
 E &= mc^2 = \hbar \cdot \omega
 \end{aligned} \tag{5}$$

Those are Einstein and Plank equations describe the relation between mass, energy and frequency with quantization through \hbar which is a property of 4D space-time viscosity and relate quantization principle to its fluid nature, this is one of the most important reason for our physics puzzles.

To find relation between the vortex effective internal wavelength and frequency could be derived through relation in other physical constants like electron charge. To find a relation to start with, plasma frequency for metal could be used since electrons are forming electrons sea in plasma fluid, 4sphere volume are used to measure the number density one electron per 4spher, then the energy mass frequency relation used

$$e^2 = \frac{\omega^2 m_0 \epsilon_o}{n} = \epsilon_o \left(\frac{\pi^2}{2} \lambda^3 \tau \right) \omega^2 \frac{\hbar \cdot \omega}{\tau c^2} \tag{6}$$

$$= \epsilon_o \left(\frac{\pi^2}{2} \lambda^3 \right) \omega^2 \frac{\hbar \cdot \omega}{c^2} = \epsilon_o \left(\frac{\pi^2}{2} \right) \frac{\hbar \cdot \lambda^3 \omega^3}{c^2} \tag{7}$$

$$\frac{e}{\epsilon_o} = \sqrt{\left(\frac{\pi^2}{2} \right) \frac{\hbar \cdot \lambda^3 \omega^3}{\epsilon_o c^2}} \tag{8}$$

$$\frac{e^2}{4\pi \epsilon_o \hbar c} = \frac{\pi \lambda^3 \omega^3}{8 c^3} = \alpha \tag{9}$$

$$\lambda \omega = \sqrt[3]{\frac{8\alpha}{\pi} c^3} \implies \lambda = \frac{1}{\omega} \sqrt[3]{\frac{8\alpha}{\pi} c^3} = \frac{\hbar}{m} \sqrt[3]{\frac{8\alpha}{\pi c^3}} \tag{10}$$

To get some properties through magnetic constant Ampere law is used

$$\oint \vec{B} \cdot d\vec{\ell} = \mu_o I = \mu_o e \omega \lambda = B_e 2\pi \lambda \implies B_e = \frac{\mu_o e \omega}{2\pi} \quad (11)$$

so with the help of this methodology of using experimental values for physical constants with dimensional analysis and physics and fluids laws we can get the properties of viscous 4D space-time fluid, for example we can find the dimensional less numbers in fluid dynamics or any other properties since the physical constants reflect this fluid properties, for example the thermodynamical properties of space time fluid disturbance could be studied using Boltzman constant and Avogadro number with thermodynamical laws.

Most important note that viscous 4D space-time fluid is the quantum vacuum state, the fluid do not have mass and only detected by creating particles and energy wave like light.

B. The six two form (2D) as strings and their strength

In string theory the string is the one dimensional object, which its vibration creates 2D surface world sheet [12, 13] the number of strings depend on the dimensions of space time, which needed to create particles and field in standard model, all dimensions are rolled and compact and only we see 4-dimension space time. According to String theory [12] standard model could be build using six strings with intersecting D6-branes and O6-planes orientifold with realistic physics compactification on a seven-dimensional manifold which mean we need 6 dimension strings, which are the six days (periods) shown in Quran [41:9-13] divided into two group interact together to create seven-dimensional manifold for fields.

Also in 4D Riemannian manifold[7–9] fluid, any disturbance cause curvature in fluid flow field, represent by curvature 2-form and may cause a vortex which borak the flow field symmetry and described by voracity two form, both curvature and voracity 2-form are function of six dimensions 2-form basis for any 2-form in Riemannian 4D manifold. Those six 2-form basis represent six surfaces in the manifold [10, 11, 13], so the six 2-form basis of 4D Riemannian manifold could be called 6 strings in the language of string theory. And since in general relativity space time is 4D Riemannian manifold, which its curvature 2-form[7, 11] is function six 2-forms of the space time 4D Riemannian manifold with components of Riemann-Christoffel curvature 4 rank tensor. It is known that Riemann-Christoffel curvature has symmetries relations with $6 \times 7/2 = 21$ linearly independent components [11].

The six 2-form basis (strings) of any differential 2-form in space-time 4D Riemannian manifold fluid are given as

following [9, 11]

$$dt \wedge dx, dt \wedge dy, cdt \wedge dz, dx \wedge dy, dy \wedge dz, dz \wedge dx \quad (12)$$

we have there pure space strings and three mixing space time strings, not forget that fluid is flowing in time direction

To measure the strength of the strings, the above methodology, which is using physics laws, physical constants and dimensional analysis are used here. first Newton's law for gravitation force, the mass relations are used to obtain the following

$$F = G \frac{M_1 M_2}{r^2} \Rightarrow F \cdot r = E = \hbar \omega = G \frac{M_1 M_2}{r} \quad (13)$$

$$\hbar \omega = G \frac{\hbar \omega_1 \hbar \omega_2}{\lambda c^2 c^2}$$

$$\ell \tau = 2\pi (\mu_o \varepsilon_o)^2 \hbar G = \alpha(\text{length}, \text{time})$$

$$\ell \ell = 2\pi (\mu_o \varepsilon_o)^2 \hbar G = \alpha(\text{length}, \text{length}) \quad (14)$$

It is clear that the strength of (length, length) string is c times stronger than (length, time) strength, but according to Quran equation of creation [41:9-13] there are 4 string with the same strength. Those four strings form most of the energy and the stability of vortex. This require that one (length, time) converted to (length, length) string by multiplying it by c , that most probably occur in the direction of fluid flow with the speed c . This conclusion lead us to very important new understanding for the physics of space time fluid disturbance.

Any disturbance in space time fluid flow split time axis direction to two projections. The first time projection is in the direction of flow with speed c and the second projection of time is in the 3d hypersurface without the speed c , This time projection is symmetry in 3D space, this may solve the puzzle of time symmetry and irreversibility. i.e. particles interactions in 3D hypersurface flow the laws with time symmetry in 3D, and over all the interactions goes in time irreversibly in space time flow direction[44].

C. The Thermodynamics properties and the pressure for Space-time fluid

The basics laws of Thermodynamics as we know from the experiments coming from the 4D space time fluid properties. Since the space time do not have mass, this mean there is no internal energy, and also it is mean that no dissipation for energy disposed in it, the space time viscosity is just to adjust the properties of stable forms of the vortexes (materials), fields, and all form of space time disturbance, but it is not for energy dissipation since there is no mass or internal energy. This lead us to understand the three basics laws of Thermodynamics as follow

1. *The first law of thermodynamics, the conservation of energy*

Since no internal energy in space time water, and there is no dissipation for energy, the quantity of energy disposed be All the creator which is his words and writing kept constant in the universe and there is no any way to create energy or destroy it, except by His word and will. This is reflected in any close system in universe it is energy is constant since no way or process to create or destroy energy, which is the law of conservation of energy, the first law of thermodynamics.

2. *The second law of thermodynamics, entropy increase*

Since the 4D space time fluid is just a giant computer[6], and energy is just writing information it, and since information not destroyed by any process, but may incross by processing it by the universe as giant computer big bang time arrow increases (see below), the quantity that measure amount of information is the entropy [29], which computed with famous law

$$S = k_B \log W \quad (15)$$

So in all universe the entropy increases as the information with big bang time arrow increases, in closed system the process of the information either keep it constant which mean the process is reversible or increases it i.e. irreversible process, but there is no way to destroy information since energy is conserved. This is the statement of second law of thermodynamics that is in any process the universe entropy increases since the unverse expanding is irreversible process or the entropy is constant in closed system in which is reversible

3. *The third law of thermodynamics, there is no way to absolute zero Kelvin temperatures*

Since the temperature is measuring the energy contains of the system and its entropy i.e. its information contains, and because Zero of Kelvin temperatures scala coming at finishing of volume and pressure of the materials, then the attained of absolute zero Kelvin temperatures mean the finishing of entropy and energy in any forms even energy as mass, and going to flat flow of space time fluid without any disturbance, which is not possible inside the big bang sphere below, and this just clarify the third law of thermodynamics.

Also, this explain the quantum zero point energy, that since any particle or field is disturbance (energy) in the fluid, even if there is zero temperature around them, the particle or field could not be removed.

4. *The pressure for Space-time fluid*

Since the 4D space time fluid is similar in properties to water properties according to Quran, we expected that space time fluid has compressibility, this compressibility is reflected in the speed of sound[15, 36, 45] in water or here in the space time fluid is the speed of light.

Although there is no mass in space time fluid, the fluid has a property like the pressure, but with dimensions number $m^{-1}s^{-3}$, which is dependent only in space time fluid density n which equal to the number of space time fluid points per unit space time volume, since for space time fluid there is no entropy.

So from the speed of light (sound) in space time fluid, the pressure is given by

$$\frac{\partial P(n)}{\partial n} = c^2 = \frac{1}{\mu_o \varepsilon_o} \quad (16)$$

$$P(n) = \frac{n}{\mu_o \varepsilon_o} \quad (17)$$

$$(18)$$

actually in fluid dynamic, the pressure gradient is an agent for the Riemann curvature of fluid flow field[7].

D. Map to Unified grand equation for Energy(particles, fields, distortions) to Curvature Geometry (Six 2D configurations strings) of viscus space time 4d fluid

The map to drive the unified grand equation, for Energy(particles, fields, distortions)-Curvature Geometry (six 2D configurations of strings) of viscus space time 4d fluid from first principles using the model above, is beginning by study of the geometrical theory of fluid flows as dynamical systems[7, 8, 14]. Using this geometrical theory with fluid dynamic a hand waving derivation for expected equation is given as following.

Starting by the fact that the fluid manifold is described by its flow velocity field, and any depositing of energy inside the fluid is reflecting in the geometrical change of the velocity field. The geometrical change is due to smooth mapping of velocity field such that the true physical solutions are given by smooth change in geodesic curves of the velocity flow field[7]. A geodesic curve is defined as the shortest distance connecting nearby points, i.e. the straightest path between the nearby points, which is derived as globally extremum distance using the variational principle [7, 10].

Using the variational principle, it is found that the behavior of geodesic curves for the frozen stable flow system such as voracity (matter) field is described by Jacobi Equation, its derivation is given in[7].

$$\nabla_{\tau}^2 J + \Omega(J, T)T = 0 \quad (19)$$

which show the behavior of a family of neighboring geodesic curves for describing the stability of frozen flow field, for example the frozen voracity field the equation derived on the basis of geodesic equation of space time fluid[7]. where

J : geodesics variation vector field where its lie derivative $\mathcal{L}_T J = 0$ the condition for frozen field

T : the tangent vector field for geodesics curves

Ω : curvature 2-form, for holonomic basis $\Omega_{\nu}^{\mu} = \frac{1}{2}R_{\nu\rho\sigma}^{\mu}dx^{\rho} \wedge dx^{\sigma}$ where $R_{\nu\rho\sigma}^{\mu}$ is Riemann curvature tensor [11]

τ : geodesic curve length parameter i.e. proper time

∇_{τ} : covariant derivative along proper time of geodesic curve

The equation may be considered to describe the acceleration of geodesic curves for a frozen stable flow field which equal to function of curvature 2-form. The curvature 2-form contains a voracity 2-form in case a vortex (matter) is exist in the fluid flow field.

Jacobi Equation is very good description for geometrical structures and curvature of frozen fluid flow, which is prefect suite for our 4D viscous space time fluid, since this fluid do not have mass or internal energy. The problems from experimental point of view that our measurements related more to energy measurements. It should be there a rigorous way to drive similar equation by using variational principle for our viscus 4D space time fluid, using the space time viscosity and previously obtained mass relations, to relate the energy contains of space time disturbance to the curvature of geometrical configurations for the six 2-form strings interaction which is creating particles and fields.

Actually, the author working in a rigorous derivation using the combination of Relativistic Fluid Dynamics [44, 46], the geometrical theory of dynamical systems for fluid flows, voracity dynamics [7, 8, 14], string theory and knots theory [12, 16, 17].

A Hand waving derivation for expected equation coming by simulating general relativity Einstein field equation[11, 47], in which one side of equation contains energy momentum tensor of the system converted by constant geometrical dimension and the other side is the geometrical part of the system.

Here the energy momentum tensor is taken from Naiver-Stokes equation [15] with Relativistic Fluid Dynamics for viscose spinning fluid in 4D Riemann manifold [44, 48, 49], which is characterized by the vierbein [39, 50], and the geometrical part come from Jacobi equation, with dimensional constant to convert energy to geometrical part, The following equation could be good guess

$$C\nabla_{\nu}T_{\mu\nu} = \alpha(\rho, \sigma)g_{\mu\mu}\Omega_{\nu}^{\mu} = \alpha(\rho, \sigma)g_{\mu\mu}R_{\nu\rho\sigma}^{\mu}dx^{\rho} \wedge dx^{\sigma} \quad (20)$$

C : are dimensional constants to balance the equation

$T_{\mu\nu}$: energy momentum tensor for viscose 4D space time fluid with spinning terms

Ω_{ν}^{μ} : curvature 2-form, for holonomic basis $\Omega_{\nu}^{\mu} = \frac{1}{2}R_{\nu\rho\sigma}^{\mu}dx^{\rho} \wedge dx^{\sigma}$ where $R_{\nu\rho\sigma}^{\mu}$ is Riemann curvature tensor [11]

$\alpha(\rho, \sigma)$: string strength according to values derived above

Where $T_{\mu\nu}$ could be written by [51]

$$T_{\mu\nu} = T_{\mu\nu}^F + T_{\mu\nu}^S$$

where F for viscus space-time fluid energy momentum tensor and S for spinning space-time fluid energy momentum

$T_{\mu\nu}^F$ could be written by [49]

$$T_{\mu\nu}^F = (\rho + p - \zeta\Theta)u_{\mu}u_{\nu} + (p - \zeta\Theta)g_{\mu\nu} - 2\eta\sigma_{\mu\nu} \quad (21)$$

$T_{\mu\nu}^S$ could be written similar to [39, 48, 50] with same convention spinning Weyssenhoff fluid with density replaced by space time mass density

$$T_{\mu\nu}^S = 2u_{\mu}^{\alpha}\nabla_{\beta}S_{\alpha\nu}^{\beta} - \nabla_{\alpha}S_{\mu\nu}^{\alpha}S_{\mu\nu}^{\alpha}S_{\nu\mu}^{\alpha} \quad (22)$$

$$S_{\mu\nu}^{\alpha} = u^{\alpha}S_{\mu\nu} \quad (23)$$

$$S_{\mu\nu} = -\frac{1}{2}\rho_{space-time}\mu^{ij}b_i^{\mu}b_j^{\nu} \quad (24)$$

After getting the covariant derivative for total $T_{\mu\nu}$ viscus of space-time fluid energy momentum tensor similar to [39, 48, 50]. we get Unified Energy(particle, field, distortion)-Geometry (Six (2form) strings interaction) Equation for viscus space time 4d fluid which should help us to describe from microscopic objects world to any cosmological structure to the whole universe only change the energy and momentum to revelent system.

The equation reflects that the designer and the creator is the one and only the one Allh.

1. Comments and possible verification

The unified grand equation 20 contains a lot of information, if the input is the geometry of space time around the objects, the energy information is obtained. If the energy information is given the possible geometry of space time is obtained. This reflect why geometry is linked too much to physics laws.

The true verification of this unified grand model, coming from comparing its calculations results form this equation or from rigorous derived equation to the experimental data from particles accelerator experiments and cosmology observation

If you find rejection by the disbelievers so hard to bear, then seek a tunnel into the ground or a ladder into the sky, if you can, and bring them a sign: God could bring them all to guidance if it were His will, so do not join the ignorant.[6:35]

also, the following chapter show the model ability to give reasonable solutions for most puzzles in physics

V. SOLVING OUR PHYSICS PUZZLES

Now this physical interpretation give us what is missing before the complete physical picture and consensually we could now able to see what inside the black box and know the meaning of the buttons and its functions and solving the physics puzzles of universe. It is clear that this universe is no more than a giant computer[6], this computer is recording and processing every thing in universe even us as preserved information for His word ‘Be,’.

A. The big bang, black energy, and black matter

Being with the big Bang at the moment He decrees something, He says only, ‘Be,’ a huge energy deposited in the center point of fluid creating turbulence with very high energy density (distortion in space time fluid) creating unstable structures vortexes and chaos which mean high entropy and temperature, where the huge turbulence is created by huge six strings. Due to the circulation of space time fluid the turbulence with very high energy begin to diffuse isotropically in all directions, as time from big bang “big bang time arrow” increases the radius of diffusion 4D sphere increases, the temperature decreases the energy density (distortion in space time fluid) decreases and unstable structures vortexes and chaos move to the most stable vortexes suitable to the fluid properties (His design) forming the dust contains protons, electrons, neutrons, and neutrinos suspended in the circulating space time fluid which seen by us as a frozen space time but it is flowing around vortexes (we call it mass which no more than energy localization in space time fluid), this space time fluid have large distortion areas within the radius of diffusion 4D sphere, where some points become center for stars formation to produce higher chemical elements and then to exploit to produce plants or become black hole or start dwarf. Also in the big bang sphere large scale structure are formed like stars, quasars, galaxies and galaxy clusters due to the fluid properties of Space-time, any cosmological structure come from fluid disturbance due to the interaction of the six strings with deferent energy. The 4D big bang sphere is expanding

We built the heavens with Our power and made them vast [51:47]

until

On that Day, We shall roll up the skies as a writer rolls up [his] scrolls. We shall reproduce creation just as We produced it the first time: this is Our binding promise. We shall certainly do all these things. (105)[21:105]

First the model give answers to many puzzles in cosmology, those puzzles are due to our uncomplete physical picture (space time, mass, force), for example dark energy now relating to close circulating space-time 4D fluid universe which give rise to some kind of centrifugal force accelerating the expanding of big bang diffusion 4D sphere which is the visual universe since we can not see the space time fluid itself “in quantum terms the vacuum state” since the interaction with space time need high energy to create particle or radiation for detection, also we have other forces not taken beside the gravitation in general relativity, we have 7 fields may be in large scale some of them may rise strong repulsion which increase the expanding of big bag sphere. For dark mass puzzle, it is become clear that our concept of mass and energy was the reason for the puzzle, in General Relativity Einstein equation[11, 13, 47] the visual mass contains in visual universe used to solve the equation where mass is no more then energy localized by vortex in space time fluid and it should be all form of localized energy, distortion in space time fluid, second Einstein equation do not take account for other forces, may be the new equation help us to solve more cosmology puzzles.

B. The constancy of speed of light and Lorentz transformations

The fluid nature of space time explain the constancy of speed of light which no more the speed of sound “compression wave” in space-time fluid and since space-time do not have mass it also the speed of circulation flow in time direction. Also, it is the maximum speed of interaction between different parts in 4D fluid flow, which translated to Lorentz transformations and Poincar group to reflect the localization of interaction and causality[52]. In same time from fluid properties vortexes which called mass can not reach the speed of sound of the fluid[45, 53, 54] which is maximum speed on the fluid, unless the object is fabricated from different raw materials other than our space-time fluid to have speed more than speed of light.

C. Quantization principle

Now come to micro world, the most important note that there is no point like particles, all forms of localized

energy vortexes (mass) or space time localized disturbance fields, or traveling energy waves coming from six strings interactions, which make them extended moving disturbance where due to the viscosity of the space time fluid their energy take quantized values according the configuration of the six strings. Thus the quantization principle reflect the 4D fluid nature and its value related to the viscosity of this fluid[55].

The momentum and energy will be represented by operators (momentum map) of the six strings interactions which related to the vortex and loop algebra[7, 15, 56, 57], such that their commuter with position operators give the famous relations where \hbar is relating to the space time fluid viscosity.

Which mean that quantization should be rise up naturally in the system especially for vortex (particle) which correspond to loop algebra[7], and not to enforce it. The field quantization is no more then dividing the fluid to periodic cells which is a similar to a produced in fluid mechanics[56].

D. Time symmetry

Since any disturbance in space time fluid flow split time axis direction to two projections. The first time projection is in the direction of flow with speed c and the second projection of time is in the 3d hypersurface without the speed c , This time projection is symmetry in 3D space, this solve the puzzle of time symmetry and irreversibility. i.e. particles interactions in 3D hypersurface flow the laws with time symmetry in 3D, and over all the interactions goes in time irreversibly in space time flow direction[44].

In low velocities particles and the experiments on the them done on 3D hypersurface which having time symmetry component, which explain why our discovered physics laws have this time symmetry, but at high speed near from speed of light the physical laws have to become Lorenz invariance since the time projection in the direction of space time flow.

E. Schrödinger equation

In low speeds the particles i.e. vortexes and the experiments done on them are live in 3D hypersurface with time symmetry projection inside the viscose 4D space time fluid. Logically, the equation that describe the vortex motion in 3D fluid should be discovered first which is Schrödinger equation. The fluid nature of the equation was discovered just after its publishing by Madelung transformation. This transformation lead to quantum hydrodynamics discription for Quantum mechanics [55].

Mean while in 3D fluid mechanics the equation that describe the motion of a vortex filament is called local induction equation or Landau-Lifshitz equation which is

corresponding to loop algebra where the momentum appear as operator, this equation describe geodesic equation of motion for vortex[7, 14, 56].

Hisimoto using Madelung transformation or what it is call Hisimoto transformation to transfer Landau-Lifshitz equation to non linear equation Schrödinger[7, 14].

Simply now it is clear that Schrödinger equation for quantum mechanics could be derived as follow.

First describing the particle i.e. vortex filament motion in 4D viscose space time fluid then projecting it in the 3D hypersurface with symmetry time. This will lead to Landau-Lifshitz equation like which corresponding to loop algebra when the momentum as operator appear then using Madelung (Hisimoto) transformation it to turn it to Schrödinger equation when there external force distortion in space time fluid flow field, it should be described by potential function and add to Schrödinger equation, this to ensure that the equation describe geodesic equation of motion for vortex. The viscosity of the space time will reflected by \hbar in the time operator and momentum operator in Schrödinger equation [7, 14, 22, 55, 56].

F. Dirac equation

In high speeds of vortex the 4D nature become so clear and cannot be ignored. The equation that describe the vortex filament motion should depend on its 4D voracity and the energy localized on it, and must be invariant under Lorentz transformation.

In this case of four dimension vorticity a full description for it will need 4 components vorticity stream functions as compared to the case of three demission voracity[56]. So Dirac equation contains the mass (the energy localized) and the spin (vorticity) with four components spin correspond to four planes, and describe the evolve of four 4 components vorticity stream functions for vortex in 4D space time fluid flow[56].

The available vorticity and vortex dynamics studies only the measured 3D vorticity cases where the vorticity 2-form represented by 3 basis 2-form not six 2-form, for this reason the Dirac equation do not show up there like Schrödinger equation.

But E. Recami and G. Salesi show a hydrodynamical interpretation of the Barut-Zanghi model from the Dirac electron [58, 59]. The electron as spinning 4D Weyssenhoff fluid, the only problem they force the quantization which lead their derived equation to be not exact to Dirac equation.

Their results show that all the physical parameters like spin, parity, U(1) symmetry are given by physical picture. Also their results show that the particle (spinning fluid) correspond to anticlockwise rotation in fluid and antiparticle to clockwise with rotation which agree with knots[17] results for producing the standard model particles properties using different configuration.

G. Forces

For fields are just distortion for viscose space time 4D Rermanian manifold, which explain the potential function, fluid concept, description of forces fields [36, 45, 53, 54].

Electromagnetic force could easily produced as in[9, 40, 43], while gravitational force could be easily obtained with approximation to reduce to Einstein equations [43, 44, 46] which contains a lot of hydrodynamical concepts.

Gravitational force is related fluid dilatation while electromagnetic force related fluid vorticity [15]. The week force is related to 4D vorticity 2-form since it linked to electromagnetic force, and both are Gauge field represent a 4D vorticity gauge field[7], which could be described by $U(1) \times SU(2)$ symmetry [7, 11, 58].

The string interactions produce the particle i.e vortex and the field around that particle vortex. When the particles become close to each other they felling the distortions (forces field) in the space time fluid flow field, which is force interaction between the particles or vortex which effect their motion, this phenomena is famous in fluid dynamic as vortexes interaction [7, 14, 36, 45, 53, 54, 56]

If the interaction between the vortexes is great the flow field between them become large distorted field creating unstable vortexes which carry localized energy of the interaction of vortexes (particles) or force mediators like W^+ [23].

From Quran creation equation [41:9-13] and from string theory[12] there should be seven fields (seven-demission manifolds) which mean that there are at least three hidden forces not yet detected, or they are mixed with existence, sure now with help of the equation their properties can be studied theoretically and then test experimentally, and must probably there existence explain many phenomena.

H. Standard model of particle

The model show that particles are localized energy anti-clockwise[17, 58] vortexes[60, 61] in 4D viscous space time fluid, and all particles properties like spin, mass, charge, helicity are vortex properties[15, 17, 56–58]etc. Where antiparticle are clockwise vortexes [17, 58], which due to the fluid properties are not stable, their instability explain the abundance of matter in the visual universe over anti matter.

Since the vortexes is six strings[12] interactions it could be topology represented by knots configruations[14–16]. Those knots configurations could be used to obtain the standard model of particles properties [17, 18, 58].

The stability condition of particles or their life time depend on their configuration and its relation to space time fluid properties, the unstable vortexes decay to more stable one pulse sound(light) wave[15, 54].

And as space time is viscose fluid the nonlinearity,

chaos, and instability always appear with any great disturbance creating great number of unstable structures (particles) which with time decay to stable vortexes [15, 54]

I. Symmetry breaking and mass

The space time fluid is flowing in time direction, if there is no any energy disturbance as localized form i.e. vortex in the fluid flow field, The follow field will has a symmetry. The introducing of vortex as localized form of energy (mass) brook the symmetry of fluid flow field. This explain why Symmetry breaking linked to the appear of mass.

J. Strong force (not a force) and Quraks confinement

It seam that strong force is not a force in the meaning of distortion in 4D viscous space time fluid but it is a tension force when a deformation happen to high energy vortexes. This high energy vortex consisting topologically form interfered knots, where each circulating loop in knots could be considered as as a localized energy (particle) i.e. quark. Since no way to brook or decay the stable high energy vortex due the properties of the viscous space time fluid the loops (Quraks) said to be in confinement, and strong force (tension inside the vortex) look very short ring. This explain why this force not effecting other light particles like electron and neutrino as they do not have this internal high energy structures or loops.

This description explain the results of the experiments at the RHIC facility that Quark-Gluon Plasma behaves like a nearly ideal fluid [62].

K. Yang-Mills theory

Yang-Mills theory is a gauge field description for strong force and since the strong force is not a true force but it is tension force for high energy vortexes. This high energy vortex consisting topologically form interfered knots, where each circulating loop in the knots could be considered as a localized energy (particle) i.e. quark.

This explain why Yang-Mills theory using $SU(3)$ symmetry, the theory describe the internal structure of high energy vortex which is consisting of many knots or circulating loops i.e. the $SU(3)$ describe loops symmetry of the high energy vortex (particle). This discription solve all the puzzles of the theory as following Yang-Mills theory

Problem: (1) It must have a mass gap; namely there must be some constant $\Delta > 0$ such that every excitation of the vacuum has energy at least Δ .

Solution: Vacuum is no more than the 4D space time viscose fluid which not have mass or internal energy. Any disturbance(excitation) for this fluid flow need energy. This energy expressed as mass when it become localized in the fluid flow field.

Problem: (2) It must have quark confinement, that is, even though the theory is described in terms of elementary fields, such as the quark fields, that transform non-trivially under $SU(3)$, the physical particle statessuch as the proton, neutron, and pionare $SU(3)$ -invariant.

Solution: Since $SU(3)$ describe the internal loops or knots symmetry of high energy vortex, which mean that elementary loops flow fields (fields) will transform non-trivially under $SU(3)$, while high energy vortex as whole system is invariant under $SU(3)$ transformation. Since no way to brook or decay the stable high energy vortex due the properties of the viscous space time fluid the loops (Quraks) said to be confinement, and strong force "tension inside the vortex) look very short ring.

Problem: (3) It must have chiral symmetry breaking, which means that the vacuum is potentially invariant (in the limit, that the quark-bare masses vanish) only under a certain subgroup of the full symmetry group that acts on the quark fields.

Solution: The space time flow field direction and its distortion should be invariant, this will mean that the circulation inside the loops or knots of high energy vortex have both left hand and right hand circulation flow such that space time flow field direction is invariant when there is no localized distortion (qurak) on it.

L. The variation principle and the Gauge fields

The circulating 4D space time viscose fluid is topologically a Riemannian manifold that its flow in the direction of time is mapping the fluid to itself such that keeping the behavior of geodesic curves invariant in the flow, the introducing of energy (The God words) in the manifold flow creating invariant structures like knots (vortexes, materials) or curvatures (force fields) the equations that describe the evolve of those structures during the continuous mapping (Diffeomorphism) (the fluid flow) should preserve geodesic curves flow invariant and also preserve the topologically invariants structure.

Those expected equations that describes the evolve of the geodesic curves, should coming from the definition of geodesic curve. A geodesic curve is defined as the shortest distance connecting nearby points, i.e. the straightest path between the nearby points, is derived as globally extremum distance using the variational principle [7, 10].

"This variational principle of space time fluid motion could be reformulated in terms of the covariant derivative and gauge fields for space time fluid flow. gauge principle requires invariance of the Lagrangian, a function on the tangent bundle to the 4D flow manifold, and its variations with respect to both a translation group and a rotation group".[7]

The reference [7], especially pages 250-251, could be used for visualizing the connection between origin of many physics principles and its relation to fluid properties of space time, with note that space time fluid is Lorentz invariance not Galilei invariance.

This explain why all physics laws derived from the last action principle. The last action principle is just the way to find to geodesic curve, and describe its evolve in mapping the manifold to itself. i.e. the last action principle and the gauge fields describing the evolve of geodesic curves in the space time fluid flow manifold.

VI. CONCLUSION

It is amazing that rules from creative thinking psychology helped us to propose this link between Quran creation story and field of physics, actually in islamic religion the study of physics is a worshipping duties.

This because Islam strass in Quran and Prophet Muhammad traditions on using of human intellectual ability for searching about evidences and experimental proofs for any beliefs or facts hold by human, since every person will be accounted for his/her beliefs after life. Not even that but Quran stress that punishments for ever will be given for who do not use his/her intellectual ability to search for the true straight path in the life and to keep himself/herslfe on it as the main exam. In fact Quran give example for that search in Abraham story [6:74-84].

This is one of the reasons behind the scattering of the creation story in Qruan, i.e. muslims should reflect on the creation of the heavens and earth using their intellectual ability by collect evidences and experimental facts to connect the different parts of creation story in Quran and try to understand the creation process, which reflects the power of the creator and proof that there is only one creator for the universe.

Actually, this research was my personal trial for that target. It was one of main motivations for me to study physics is to understand the creation process and to worship the creator according to Islamic belief.

Using the experimental physics facts and theories to guide my personal interpretation of Quran creation story, and building the new unified model described as follow:

Universe is consisting of circulating 4D viscous water like space time Riemannian manifold fluid, without mass or internal energy. When the energy deposited in this fluid, a turbulence is created, any disturbance in that water create six 2-form surface which represent six string in the language of string theory. The interaction of those six

strings create vortex or voracity which create the fields and matter according to my personal interpretation for Quran [41:9-13].

Using the geometrical theory of fluid flow looking to describe behavior of geodesic “straight paths” curves lead to a map for unified grand equation for Energy (particles, fields, distortions) to curvature geometry (Six 2D strings) of viscus space time. The model gives us the missing complete physical picture which help us to find reasonable answers to existent puzzles in physics.

This understanding of creation may show that islamic Pilgrimage (Hajj) is symbolic reflection for the creation process of matter Kabe and a 7 cycles as fields.

According to Islamic belief the only proof that **my personal interpretation** is right, is the experiments and observations, and I am in both cases according to islamic belief got the reward from God.

There is a note that all physics principles could be derived by the last action principle which no more than search for the equation describe the geodesic “straight paths” curves in the space time fluid. This is the same definition of Islamic religion according to Quran and Prophet Muhammad sayings as following

(5) It is You we worship; it is You we ask for help. (6) Guide us to the straight path: (7) the path of those You have blessed, those who incur no anger and who have not gone astray. [1:1-7]

The variational principle in Islam

Narrated Abdullah bin Masud :

Allahs Messenger saw a straight line (for our comprehension) saying that it is the way to Allh. Then he drew oblique lines on both the left and right of the straight line, saying that Satan prompts you to follow these. He recited part of the Qurnic verse: This is My way, the straight one. So follow it.. (Ahmad, Nasai and Drimi)

Jbir narrated:

We were sitting in the company of the Prophet . He drew a straight line and two others on its each side. Placing his hand on the straight one he remarked: This is Allhs way; all others are not His. (Ibn Mjah)

Islam is the straight path, geodesic curve, the shortest distance between you and the creator Allah, where your relation with Him is direct and no agent is needs. Quran and prophet Muhammad, who excellent human model for Islam, is the equation for that shortest distant between you and Allh.

But some people try shield that fact

(26) The disbelievers say, Do not listen to this Quran; drown it in frivolous talk: you may gain the upper hand.[41:62]

By comparing the creation stories of most religions, it is found the creator is one and the creation begin by water for example in old Egyptian [63]

Lower Kingdom Creation Myth:

Only the ocean existed at first. Then Ra (the sun) came out of an egg that appeared on the surface of the water. Ra brought forth four children, the gods Shu and Geb and the goddesses Tefnut and Nut. Shu and Tefnut became the atmosphere. They stood on Geb, who became the earth, and raised up Nut, who became the sky. Ra ruled over all. Geb and Nut later had two sons, Set and Osiris, and two daughters, Isis and Nephthys. Osiris succeeded Ra as king of the earth, helped by Isis, his sister-wife. Set, however, hated his brother and killed him. Isis then embalmed her husband’s body with the help of the god Anubis, who thus became the god of embalming. The powerful charms of Isis resurrected Osiris, who became king of the netherworld, the land of the dead. Horus, who was the son of Osiris and Isis, later defeated Set in a great battle and became king of the earth.

Upper Kingdom creation story:

At first there was only Nun, the primal ocean of chaos that contained the beginnings of everything to come. From these waters came Ra who, by himself, gave birth to Shu and Tefnut. Shu, the god of air, and Tefnut, the goddess of moisture gave birth to Geb and Nut, the earth god and the sky goddess. And so the physical universe was created. Men were created from Ra’s tears. They proved to be ungrateful so Ra, and a council of gods, decided they should be destroyed. Re created Sekhmet to do the job. She was very efficient and slaughtered all but a few humans, when Ra relented and tricked her into stopping. Thus was the present world created.

This may give clue that for example the pyramid[64] is designed as space time fluid vortex shedding to give the most preserving environment for old Egyptian secrets and explain the fuiler of using any kind of physical wave to penetrate the grate pyramid, and proof that old Egyptian was believing in the same Islamic religion.

(24) We have sent you with the Truth as a bearer of good news and warning- every community has been sent a warner.[35:24]

This reflect that most religions come from the same source and due time the religions and their creation stories was distorted.

Islam kept preserved by the Creator, while every muslim should try to convey the islamic message by presenting it kindly to all human kind, as the this man done in Quran

(20) Then, from the furthest part of the city, a man came running. He said, My people, follow the messengers. (21) Follow them: they are not asking you to reward them and they are rightly guided. (22) Why should I not

worship the One who created me? It is to Him that you will be returned. (23) How could I take besides Him any other gods, whose intercession will not help me and who would not be able to save me if the Lord of Mercy wished to harm me? (24) Then I would clearly be in the wrong. (25)I believe in your Lord, so listen to me.' [36:20-25]

-
- [1] L. Smolin, *The trouble with physics: the rise of string theory, the fall of a science, and what comes next* (Houghton Mifflin, New York, NY, 2006).
- [2] M. A. Michael Passer, Ronald Smith and J. Mitchell, *Psychology: Frontiers and Applications* (McGraw-Hill, 2005).
- [3] O. H. M. Robert L. Solso and M. K. MacLin, *Cognitive Psychology* (Pearson, 2005).
- [4] F. C. Pereira, *Creativity and artificial intelligence : a conceptual blending approach* (New York : Mouton de Gruyter, 2007).
- [5] M. Ahmed, "How to help your students win a nobel prize: Coaching creative thinking through teaching," (2010), Viedo on Sciencestage.com.
- [6] D. Castlvecchi, NewScientist (12 February 2006).
- [7] T. Kambe, *Geometrical theory of dynamical systems and fluid flows* (World Scientific, 2004) Privew in Google book.
- [8] B. A. K. Vladimir I. Arnold, *Topological methods in hydrodynamics* (Springer, 1998).
- [9] P. J. Subin and M. J. Vedan, *Z. angew. Math. Phys.*, **55**, 258 (2004).
- [10] P. Szekeres, *A course in modern mathematical physics : groups, Hilbert space, and differential geometry* (Cambridge University Press, 2004).
- [11] L. Ryder, *Introduction to general relativity* (Cambridge University Press, 2009).
- [12] B. Zwiebach, *A first course in string theory* (Cambridge University Press, 2004).
- [13] I. D. Lawrie, *A unified grand tour of theoretical physics* (Institute of Physics Publishing, 2002).
- [14] R. L. Ricca, *An introduction to the geometry and topology of fluid flows* (Kluwer Academic Publisher, 2001).
- [15] M.-D. Z. J.-Z. Wu, H.-Y. Ma, *Vorticity and vortex dynamics* (Springer, 2006).
- [16] C. C. Adams., *The knot book : an elementary introduction to the mathematical theory of knots* (Freeman, 1994).
- [17] S. O. Bilson-Thompson, (2005), <http://arXiv:hep-ph/0503213>.
- [18] F. S.-L. Bilson-Thompson, Sundance O.; Markopoulou, *Class. Quantum Grav.*, **24**, 3975 (12 February 2006).
- [19] Google Book could be used for quick review of any reference book.
- [20] L. F. Hugh D. Young, Roger A. Freedman, *University Physics with Modern Physics with Mastering Physics* (Addison-Wesley, 2006).
- [21] D. Boersema, *Philosophy of science :text with readings* (Pearson Prentice Hall, New York, 2009) p. 568.
- [22] D. R. Bs, *Quantum mechanics : a modern and concise introductory course* (Springer, 2007).
- [23] D. A. G. W. N. Cottingham, *An introduction to the standard model of particle physics* (Cambridge University Press, 2007).
- [24] Dictionary.com Random House, Inc. (2010), Online.
- [25] D. A. Leeming, ABC-CLIO, LLC (2010).
- [26] M. Mahmoud, *Dialogue with an Atheist* (Dar Al Taqwa Ltd, 1994).
- [27] M. Brooks, NewScientist (7 February 2009).
- [28] M. Bucaille, Tahrike Tarsile Qur'an, inc New york (2003), on line copy.

- [29] D. J. MacKay, *Information Theory, Inference, and Learning Algorithms* (Cambridge University Press, 2003).
- [30] (Quran Explorer) <http://www.islamreligion.com/>.
- [31] T. Q. Project, (<http://tanzil.info/>).
- [32] O. Q. Project, <http://al-quran.info>.
- [33] J. al Din Zarabozo, (www.islamreligion.com) <http://www.islamreligion.com/articles/495/>.
- [34] T. Authenticity and P. of the Holy Quran, (<http://www.islamreligion.com/category/123/>).
- [35] Islam, (<http://en.wikipedia.org/wiki/Islam>).
- [36] T. Kambe, *Elementary fluid mechanics* (World Scientific, 2007).
- [37] Z. El-Naggar, *Scientific Miracles in the Glorious Quran* (2010) <http://www.elnaggarzr.com/en/index.php>.
- [38] D. S. H. Neil R. Carlson, Harold L. Miller and J. W. Donahoe, *Psychology: The Science of Behavior* (Pearson, 2005).
- [39] Y. N. Obukhov and . B. Piskareva, *Class. Quantum Grav.*, **6**, L15 (1989).
- [40] H. Mnera, International Workshop Lorentz Group, CPT and Neutrinos (1999).
- [41] H. Brown, (2008), <http://pirsa.org/08040041/onlinevideo>.
- [42] M. Doudah, *Speed of light in monothesis books, why?* (2000) http://www.eajaz.org/arabic/ejaz_pdf/issue/8.pdf.
- [43] J. Clerk-Maxwell, *Philosophical Magazine*, **21**, 161 (1861).
- [44] N. Andersson and G. L. Comer, *Living Rev. Relativity*, **10**, 1 (2007), <http://www.livingreviews.org/lrr-2007-1>.
- [45] J. Williams and S. A. Elder, *Fluid physics for oceanographers and physicists : an introduction to incompressible flow* (Pergamon Press, 1989).
- [46] E.ourgoulhon, **4**, 1633 (1987), <http://arXiv.org/abs/gr-qc/0603009>.
- [47] B. F. Schutz., *A first course in general relativity* (Cambridge University Press, 2009).
- [48] G. R. Th. Chrobok, H. Herrmann, *Technische Mechanik*, **22** (2002).
- [49] A. Burd and A. Coley, *Class. Quantum Grav.*, **11**, 83 (1994).
- [50] Y. N. Obukhov and . B. Piskareva, *Class. Quantum Grav.*, **4**, 1633 (1987).
- [51] L. L. Smalleyt and J. P. Krisch, *Class. Quantum Grav.*, **11**, 2375 (1994).
- [52] E. L. L.D. Landau, *The Classical Theory of Fields* (Butterworth-Heinemann, 1975).
- [53] D. Acheson, *Elementary fluid dynamics* (Oxford University Press, 1990).
- [54] G. Gallavotti, *Foundations of fluid dynamics* (Springer, 2005).
- [55] R. E. W. C. J. Trahan, *Quantum dynamics with trajectories : introduction to quantum hydrodynamics* (Springer, 2005).
- [56] A. J. M. A. L. Bertozzi, *Vorticity and Incompressible Flow* (Cambridge University Press, 2002).
- [57] P. Saffman, *Vortex dynamics* (Cambridge University Press, 1992).
- [58] E. Recami and G. Salesi, International Workshop Lorentz Group, CPT and Neutrinos (1999), Online version.
- [59] E. R. G. W.A.Rodrigues Jr., Jayme Vaz, *Particles, Gravity and Space-Time* (1996), Online version.
- [60] L. Kelvin, *Proceedings of the Royal Society of Edinburgh*, **VI**, 94 (1867).
- [61] F. Winterberg, *International Journal of Theoretical Physics*, Vol. 45, No. 6, June 2006, **45** (2006).
- [62] D. S. Sz. Horvta, V.K. Magasc and L. Csernaia, *Physics Letters B*, **692**, 277 (2010).
- [63] M. Home, Online link.
- [64] M. MJ, *Vortex shedding from small apex angle pyramids*. (University of Western Ontario, 2006).