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Paper Title EMERGENT GRAVITY WITH TWO KINDS OF GRAVITONS –FERMION GRAVITON WITH MASS FOR A MOLECULAR CLASSICAL GRAVITY AND A MASS LESS BOSON GRAVITON FOR A QUANTUM LEVEL ACTION ON QUARKS FOR A STRONG NUCLEAR FORCE.

Score each item out of on a range from **zero to 10**.

EVALUATION CRITERIA	SCORE (0-10)
1. Relevance of Topic	9
2. Scholarly Quality	8
3. English Usage	9
4. Use of Theory	7
5. Novelty and Originality of the idea	8
6. Technical Content and Correctness	7
7. Critical Qualities	9
8. Clarity of Conclusions	8

TOTAL SCORE %	More than 70 %

RECOMMENDATION

Accepted

EMERGENT GRAVITY WITH TWO KINDS OF GRAVITONS –FERMION GRAVITON WITH MASS FOR A MOLECULAR CLASSICAL GRAVITY AND A MASS LESS BOSON GRAVITON FOR A QUANTUM LEVEL ACTION ON QUARKS FOR A STRONG NUCLEAR FORCE.

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Abstract:
Our universe with five percent matter and remaining dark energy and dark matter is a profound realization of modern astronomy throwing modern physics in big crisis with a number of questions. Are we comfortable with relativity and gravity theory of Einstein? How gravity mechanism can be explained? Can we say that dark energy is having direct link with gravity mechanism? Do we have to revise atomic model without strong force? Then can we prove that all remaining three forces are electromagnetic due to mono magnetic coupling in dark energy gravitons? How all the molecular couplings are same to cause equal fall of Galileo or equal number of molecules from Avogadro. Is equivalence principle is local phenomena or universal? Chemistry may not be possible in many parts of our universe due to non applicability of Avogadro law. Any correction required in number of quarks due to revision in standard model without strong force? All these issues can be taken up by LHC for further exploration and I tried to give some proposals in my essay in describing how our universe can be viewed from big bounce to present day and some analysis of modern idea of Dr.Guth's exponential inflation at the time of big bounce as well as interpretation of BICEP2 .

Essay:

When we look at the history of developments in modern physics, we are at a loss to answer many basic issues left unattended. The mechanism of light propagation was not fully understood from double slit experiment and Einstein developed his theory on photo electric effect by assuming photons as flow like bullets without the need of any medium. The wave of electromagnetic in a medium called ether was popular but also the need of ether was rejected from Michelson Morley experiment and relativity theory was developed rejecting ether on equivalence principles. .

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Maxwell developed his equations on electromagnetic propagation from wave theories

taking ether as medium. Experiments conducted to confirm the equations as basic tool in electromagnetic propagation.
Relativity theory with isotropic frame and maximum light speed limit in vacuum was a successful outcome resulting in GPS and tested in our solar system again and again. Space is warping around matter to look as gravity and the time is taking a dimension in space-time convolution to solve our research on astronomical as well as quantum theories quite successfully but the old questions in double slit experiments remained. Vacuum energy was required in many quantum laws with virtual particles when Casimir effect was found experimentally.
It was a clear indication of some real exotic particles mediating force everywhere and Einstein though stumbled with cosmology constant from his equations but ignored till Hubble showed the expansion of the universe. Something is there like ether doing all these acts but whether isotropic throughout universe or what connection it may have with gravity was not explored and it was assumed isotropic cosmology constant value which calculations hijacked into an unbelievable figure.
Something is wrong going on but no body expected that Newton's gravity laws may not be applicable in galactic rotation, requiring the need of dark matter. The doubt on equivalence principle cropped up as well as relativity theory of isotropic universe. Soon we saw the accelerating picture of our universe from supernova observations beyond doubt necessitating a dark energy component and calculations show matter is only five percent and rest is dark matter and dark energy.
New cosmology observations found dark pull and dark flow as if something is pulling from outside our universe.
An attempt was made to revise Newton in MOND theories but the gravity mechanism is not known and Einstein's special gravity theory failed to account for such observations. Gravity wave search is going on as well as dark matter and dark energy from heaven to remote deep mines.
On the other hand in quantum physics, the experiment by Rutherford never concluded definitely the protons and neutrons at center of atoms but strong force was assumed and Bohr tried to explain scattering by orbital jump theory of many electron orbits to a limited cases of light gases.
With all these knowledge, we developed a standard model on probability and uncertainty along with many versions of string theories. Experiments supported standard model though people were doubting the frame work. Are we sure that quantum physics is a calculus game? Are we sure that there are six quarks downloaded from standard model? Are we sure Higgs Boson derivation is correct from standard model? Or the revised atomic model more correctly describe two quarks –top and bottom without the need of strong force on a proton pulp atomic model.
Is it possible that our universe is electric with dark energy non isotropic field density soup of mono magnetic gravitons and anti gravitons swirling and whirling in galactic rotation revising Newton as..F=P.G.M.m/R.R where P is permeability factor of non isotropic dark energy we also call ether.
Why we are not sure about standard model Higgs Bosons found in LHC as if it may not be the reality when mass can also be intrinsic property like charge. Mass can not be

acquired if we say E=M .C SQUARED. The methods are contradicting. Professor Higgs

with old calculations cannot dictate LHC results and CERN is looking for revised physics beyond standard model .
many others. These developments in astronomy and quantum physics are recent but I published a few articles in ASTRONOMY.NET in year 2002 predicting all these recent observations through his /1/ MISJUDGEMENTS OF NEWTON AND ETHER=GRAVITY=DARK ENERGY THEORY OF UNIVERSAL MONO MAGNETIC SOUP,-----/2/ BALLOON INSIDE BALLOON THEORY OF MATTER ANDANTI MATTER UNIVERSE ON OPPOSITE ENTROPY PATH producing dark energy at common boundary by annihilation and injected into both the universes to cause the drama of all laws, gravity, expansion etc. etc. in non isotropic swirl and whirl soup of mono magnetic coupling rendering universe electric. So ether is mono magnetic non isotropic electrical where light is electromagnetic wave transmission and gravity is mono magnetic coupling of graviton component on matter molecular coupling causing equal fall of all molecules known to Galileo or equal molecules in Avogadro's law when temp and pressure are same for the gases.
Now we have to find out these couplings from 100 TEV. LHC experiments to revise standard model for further research and to establish my ideas. Directional push of gravitons due to a repulsive coupling effect of mono magnetism on molecules is the effect ,we call gravity. Gravitons , a component in dark energy are non isotropically distributed and have a direction of flow to give directional push. Near earth , we see gravitons are flowing like arrows to wards center of earth to create a magnetic molten core and may be a mini black hole. Matter molecules of different mass are pushed to fall and Galileo observed that all molecules fall equally. But why may be a question. Let us say that pushing force of gravitons on a molecule is F . Then F varies with 4 pie R squared. Again acceleration…
ACCELERATION= FORCE/MASS of a molecule and observed constant by Galileo. So we can say that R squared divided by mass M is constant for any molecule. That is why M/R.R =CONSTANT for any molecule which can be checked from experiment.
.
This emergent push graviton gravity theory tells us that gravity is not fundamental force as prescribed by standard model So gravitons need not be mass less but the emergent theory predicts it's mass about 750 proton mass. This is a FERMION graviton having mass and qualifies for a candidate as a dark matter in itself.
As such gravitons are dark matter in itself.
Another emergent effect of gravitons is its interaction with color charge quarks inside protons and neutrons through a residual coupling charge. This graviton is a BOSON graviton having no mass . Here BOSON gravitons work as force carrier for a strong nuclear force in quantum gravity in the making of any atomic nucleus. Therefore the assumption of gluon and strong nuclear force is wrong. It gives rise to my atomic theory of pulp proton model ,which can be described separately. When the unbalance residual become bigger in bigger atoms with many protons and neutrons, we see a weak nuclear force causing disintegration for a radio activity effect due to Z-bosons which is another sub atomic entity in the gravitoetherton super fluid. .
We can imagine the galaxies are rotating as a super fluid disk so that the gravitons are

getting more and more dense from center of galaxy due to centrifuging action. The

periphery will be more concentrated and the galactic rotation curve as observed by Dr.Rubin as horizontal, can now be explained by these distribution of heavy gravitons and no need of assuming any further dark matter. Now the development of universe structure is quite evident as opposite entropy path will bring one universe to tends to zero entropy when BIG BOUNCE will occur and Dr. Guth exponential inflation will start and soon accelerating expansion due to dark energy causing dark matter scaffolding around left over black holes escaped evaporation from previous era to act as seeds for galaxy formation and so on when at a cozy corner, we will have good laws by chance to create life on a planet and ponder about our universe. We have recently seen the great swirls of galaxy formation around escaped evaporation black holes from previous era in BICEP2 as well as in CMB .

There is no reason to reject a negative entropy for a antimatter soup of the universe surrounding our matter universe. This soup of antimatter will evolve as primordial soup with very low entropy for causing the next bounce.

The antimatter universe never evolved as a universe as per my theory due to a negative entropy path and reverse arrow of time. This has profound implications as the antimatter universe in plasma is gradually getting reduced in volume due to formation of black hole on reverse time but never a structure of an universe .

So the antimatter universe engulfing our matter universe is actually turning to black hole from plasma soup of antimatter on opposite entropy path and sooner or later will reach very low entropy when a BIG BOUNCE will occur giving Dr.Guth an exponential inflation . Thus the scenerio is ever re cyclic, re bounce with different laws from epoch to epoch and by chance tuned laws for our existence. Now our universe may be inside a black hole.

The scenario is ever dynamic re bounce, re cyclic forever in a mega universe infinite backdrop of many balloon inside balloon. Time has no beginning or end but entropical gradient flow nonsymmetrical snap shots – never absolute or a dimension causing all presents in the film roll of our existence. We cannot compare time at different parts of the mega universe.

Time given by atomic clocks are due to gravity changes from point to point in space and not as defined in relativity theory. GPS time corrections never certify Einstein for his relativity theory.

Infinite mega universe is possible as it is total void –as such zero but occupied by all balloons inside balloons with the dark energy, dark matter giving scaffolding of structures. Dark matter is concentrated dark energy and when dark energy is getting focused at center of earth or center of galaxy, we get black holes, many times less focus may cause hot molten magnetic core etc. etc. Dr. Hawking also of the same opinion about black holes. Read my theories published in ASTRONOMY.NET and sent to all science forums from year 2002 and now the observations seem to be giving some ideas of NEW PHYSICS of tomorrow. The emergent gravity mechanism tells us that when an object fall , we see that gravity pressure on molecules gradually changes by a factor 1/R.R where R is distance from center of earth . That is why EQUIVALENCE PRINCIPLES may not be true and as a result RELATIVITY THEORY based on equivalence principles may not be exactly true but approximately true in low gravity solar system PAGE-FIVE

Due to limitations of words, I am giving a quick glimpse in narration but some mathematical models also can be provided if so desired.

Balloon inside balloon theory and gravity mechanism .

The observable universe we look through telescopes and try to understsnd from standard model may be incomplete with many loop holes due to relativity theory as well as quantum physics with Copenhagen interpretation.

As observable universe is tiny compared to whole , we do not realize that another antimatter universe is surrounding our matter universe on opposite entropy path and reverse arrow of time. The common boundary is violent due to annihilation of matter-antimatter and dark energy as well as dark matter is produced and injected into both the universes.

This gravitoetherton superfluid is actually composed of many exotic substance particles as well as force carrier particles and swirling and whirling which Einstein described curvature of space-time. Actually we have to apply superfluid thermodynamical entropy theory to judge all miotions and cause effects with point to point entropical jerks and flow called TIME.

Relativity theory may good enough for low gravity solar system but not for entire universe.

Now let us discuss how gravity is produced on earth due to flow of fermion gravitons like arrows towards center of earth. Newton has given us an equation and Galileo observed equal fall .

Then EINSTEIN narrated his curved space time to qualifying why space will curve .

We are madly searching for a quantum gravity theory but actually Newtonian gravity is due to push of fermion gravitons on matter molecules towards center of earth. As we know that molecules fall equally but the fermion gravitons are becoming denser per unit area as it flow towards center of earth by a factor 1/r.r where r is distance from center of earth due to a spherical area factor reduction 4pie r squared . But push on all molecules falling must be not changing as acceleration due to gravity is constant. So volume of molecules are adjusting in a manner to accommodate the push for a constant fall though fermion gravitons are getteing denser in population. This is obvious if we look at air filled balloon when dipped in water at different depths. Same thing is happening here in gravitoetherton superfluid. Now different molecules have different mass and different volumes but they fall equally

So if mass of any molecule is M and R is radius of any molecule ,then by our above logic we can easily say from deduction that M/R.R IS CONSTANT FOR ANY MOLECULE. Which can be verified from experiment. Therefore Newtonian gravity is emergent push phenomena and here it is not fundamental.

My calculations shows that for a push, the fermion gravitons are heavy so that if we take datas from any molecular fall , then we may see that these fermion gravitons are around 750 proton mass which we have recently observed in LHC.

We can think now that the galaxy disk is rotating with this kind of magical gravitoetherton superfluid and due to centrifuging effects, the heavy fermion gravitons are getteing located in a more concentrated manner towards perphery in a right proportion from center of disk , so that Dr. Rubin rightly found the roational curve which defies Newtonian gravity formula . Scientists thought some kind of dark matter but actuall the concentrated heavy fermion gravitons are dark matter in itself.

No need of assuming any further dark matter now. No need of any MOND theory . But if you wish , you may modify Newton as F= P.G.Mm/R.R where P is location graviton concentration factor which is taken one in on earth. The galaxy disk is now stable . The center of earth is getting a focussed fermion gravitons from all sides and the core is hot molten magnetic etc.

Another type of Boson gravitons also responsible as a strong nuclear force carrier due non symmetry in color charge to more charm quarks in its formation. Double charm barions recently found is a good

candidate for Boson graviton or as we used to say gluon responsible for strong nuclear force . Therefore strong nuclear force is a kind of emergent phenomena and not a fundamental as prescribed by standard model.

Balloon inside balloon theory also suggests that outer antimatter universe is slowly turning into a BLACK HOLE due to opposite entropy and some time in future a BIG BOUNCE will occur due to entropical disbalance when we wil see Dr.Guths exponential inflation for a short period and then accelerated expansion due to dark energy injection from the common boundary. The scenerio is recyclic , rebounce again and again and due to accidental benign laws we may found a planet like eatrh inhabited by intelligent life. The main credit goes to escaped evaporation black holes from previous era which act as seeds of galaxy formation in every center of galaxy. If we look further, we may even see that these black holes are older than our recycled universe. Some theory suggests that black holes are concentrated gravitoetherton superfluid.

Dark pull, dark flow …suggests that there is another universe adjacent to our universe. We must explore further. Mega universe may be infinite in time and space harbouring all such balloon inside balloon separated by great voids of absolute nothingness. With these ideas , we have to look into quantum vaccum actually weighing bubbling with vaccum virtual energy and when calculated, it gives a factor of 120 order mismatch. Absolute nothingness is possible to exist without any weght or dynamism. We have to rethink our applicabilty of RELATIVITY THEORY AND QUANTUM PHYSICS taking out TIME from space-time .

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The time , space and our concept of reality from adopting light speed constant and relativity.

Einstein tried to explain MM EXPERIMENT null result by postulating speed of light constan by any observer on any reference frame. So if you approach a light source or move away from light source, you can not apply Galilean Transform . Einstein developed relativity by applying Lorentz Transform instead of Galilean Transform.

He never explained what is all pervading EM WAVES which must have been emitted photon by photon from source with different time tag as presnt all around to an observer . So time has been confused here itself. Now if you give photon by photon a time tag and can apply Galilean while approaching or moving away from the source. He never explained that situation also but postulating speed of light constant served his purpose to explain MM results and developing relativity theory with a bizzare concet of TIME DILATION. I always say it is not time dilation but measurement dilation. My heart beats seventy on sea shore and seventy five on a mountain per minute. Should I count my heart beats to measure time not knowing that oxygen supply actually changes heart beat. Atomic clocks also beat at various rate due to local gravity and it is obvious that clocks will mismatch with earth bound and satellite locations.

Scientiststs are happy that GPS correction proves relativity but that is not the case. TIME DILATION AS SUCH IS MEASUREMENT DILATION WHICH THEY NEVER ACCEPT. Then why to say SPACE-TIME and create some equations . Our solar system with low gravity may prove Einstein correct but Einstein is basically wrong .

The space is nothing but a gravitoetherton exotic super fluid swirling, whirling and flowing with all substance particles and force carrying particles which Einstein described as curvature of space .

The gravity and strong nuclear force are emergent phenomena due to fermion gravitons and boson gravitons as prescribed in my NEW GRAVITY MECHANISM THEORIES PUBLISHED IN VIXRA.ORG.

PULP PROTON ATOMIC MODEL.

Rutherford deduced from gold foil experiment that there must be a hard core in atoms which he further elaborated by a orbital electron around central core proton and neutron . As such it is believed that for keeping the protons together we have to assume some gluon like force carrier as described in quantum chromo dynamics.

This is strong nuclear force in standard model and it is a fundamental force . Are we sure that pulp proton atomic model keeping the neutrons as seed at the core keeping the protons bound by a residual color charge force carrier can keep the atoms stable . The new discovery of double charm baryons will now force to think about that and a re look of emergent strong nuclear force may be the next revision in standard model and quantum chromodynamics.

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DURGADAS DATTA

Our matter universe inside an antimatter universe on opposite entropy path and emergent Newtonian gravity.

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LET US TALK ABOUT THE UNIVERSE WHERE ENTROPY IS ON OPPOSITE PATH AND TIME ON REVERSE MODE...

Our universe is inside the universe on opposite entropy path and reverse arrow of time. Let us call it parallel universe. As such the parallel universe is slowly forming towards a black hole .

A time will come when our matter universe will habour the escaped evaporation black holes at the center of all galaxies and other matter and energy will dilute into a great dissipation.

The outer blackhole will be much bigger to suck the existing energy and matter from our universe and the BIG BOUNCE will occur giving Dr.Guth an exponential inflation . But soon the balance will be established to start a process of further division into two universes of matter and antimatter.

So the so called BIG BANG is a new epoch just after the BIG BOUNCE and now the escaped evaporation black holes will act as seeds of galaxy formation and dark energy ,dark matter injected from the common boundary will inflate our universe with an expansion.

Therefore the brief period of no expansion, just after exponential inflation can be understood now. Cosmology constant is actuaaly wrong as it is a varying effect of dark energy dark matter injection. Read balloon inside balloon theory published as comments in various forums and copies sent to many scientists and scientific institutions in year 2004..

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MISJUDGEMENTS BY NEWTON

Posted by Durgadas_Dutta on November 12, 2002 at 16:20:05:
THE WRITEUP PRESENTED BELOW IS A VERY BRIEF NOTE ON THE MONUMENTAL WORK CREATED ON SOME OBVIOUS MISJUDGEMENTS BY NEWTON -- EINSTEIN -- IN THEIR THEORY OF GRAVITY OR RELATIVITY OR WE MAY EVEN QUESTION OUR MATHEMATICAL FRAME IN THE FORM OF CALCULUS TO GO AHEAD IN THE PATH OF MODERN PHYSICS
CONTRADICTIONS IN MODERN PHYSICS FOR IMMEDIATE ATTENTION ON THE HIGHWAY OF PHYSICS KEPLER WAS THE FIRST TO SUGGEST THAT ALL BODIES ATTRACT EACH OTHER WITH A FORCE PROPORTIONAL TO THEIR MASSES AND INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE BETWEEN THEM. NEWTON INTRODUCED IT TO QUANTITATIVELY DESCRIBE THE GRAVITATIONAL ATTRACTION OF PHYSICAL BODIES IN THE LAW OF GRAVITATION F=G Mxm/ RXR ACCORDING TO HIM GRAVITATION IS A FORCE. WE NEVER BOTHERED TO EXPLAIN WHY THERE IS A FORCE BETWEEN NEUTRAL PHYSICAL BODIES WHEN ENTROPY OF THE UNIVERSE IS INCREASING. SO WHEN FORCE IS ALSO F= MXA, THEREFORE FOR A FALLING BODY WHEN THE HEIGHT IS CONTINUOUSLY DECREASING , GRAVITATIONAL FORCE IS INCREASING TO INCREASE THE RATE OF ACCELERATION AS F=MXA WHEN F HAS A INCREASINIG TREND . THE LAW SAYS FORCE WILL BE VERY HIGH WHEN R TENDS TO ZERO. BUT WE KNOW FROM EXPERIMENT THAT ACCELERATION DUE TO GRAVITY IS CONSTANT. HOW IT IS POSSIBLE IF THE LAW IS CORRECT. WHERE IS THE PROOF OF THIS LAW OR THE PHENOMENA OF ATTRACTION. JUST BY OBSERVING THAT AN OBJECT IS FALLING WE CAN NOT SAY THERE IS A GRAVITATIONAL FORCE. RUSSIAN SCIENTIST LOMONOSOV INTRODUCED THE IDEA GRAVITATIONAL MATTER AND IN MY OPINION ETHER AND GRAVITATIONAL MATTER ARE NOTHING BUT SAME THING. I CAN PROVE THAT THERE IS A STAGE OF EXISTANCE WHEN NUTRAL MATTER IS FORMED IN BETWEEN MATTER AND ANTIMATTER. SO ETHER IS NOT EASILY DETECTABLE AS IT IS VERY LIGHT WITH HIDDEN ENERGY NON INTERACTING FILLING OUR UNIVERSE. THIS ILLUSIVE NEUTRAL MATTER IS RESPONSIBLE FOR GRAVITATIONAL PHENOMENA AND CREATES A GRAVITATIONAL FORCE IN FORMATION OF ALL UNIVERSAL PHYSICAL CONSTANTS AS WELL AS RESPONSIBLE FOR THE MISSING MASS OF THE UNIVERSE. SO FAR WE HAVE NEVER ASKED WHY AVOGADROS LAW SPEAKS OF CONTAINING THE SAME NUMBER OF MOLECULES OR WHY THERE IS A LIMIT IN ABSOLUTE COLDNESS. WE CAN NOT EXPLAIN ENTROPY IN REAL TERMS WHEN WE DEAL WITH KINETIC THEORY OF GASES. OUR BASIC INVESTIGATING TOOLS IN THE FORM OF NEWTONS LAW OR RELATIVITY THEORY OR BOLTZMANS KINETIC IHEORY - ALL ARE TO BE ABANDONED MERE REPAIR AND RENOVATION WILL NOT HELP. BECAUSE THE BASIC CONCEPT IS WRONG IN NEWTONS LAW OR EINSTEINS RELATIVITY THEORY. ONCE I HAVE SAID THAT I MUST EXPLAIN WHY RELATIVITY THEORY IS WRONG. KINDLY BEAR WITH ME AS THE EXPLANATION IS CRYSTAL CLEAR. MICHELSONS EXPERIMENT WITH THE EXISTANCE OF ETHER AND VELOCITY OF LIGHT IS WELL KNOWN AND ACCEPTED AS PROOF RELATIVITY THEORY OR I CAN ASSUME THAT EINSTEIN DEVELOPED HIS THEORY FROM THE WRONG UNDERSTANDING BUT ACCURATE ENOUGH TO EXPLAIN CERTAIN COSMOLOGICAL EVENTS. FIRST OF ALL WHEN PHOTONS FLY IN SPACE WE CAN NOT ADD VELOCITY OF INERTIA FRAMES AS PHOTONS ARE NEARLY MASSLESS. WE CAN APPLY GALILEAN ADDITION IN CASE OF A BULLET FIRED FROM A RUNNING INERTIA FRAME. VELOCITY ADDITION HERE IS JUSTIFIED DUE TO INERTIA MASS OF BULLET BUT IN CASE OF PHOTON FIRED FROM A INERTIA FRAME THIS IS NOT PERMITTED LOGICALLY. ALSO A SIMILARITY OFTEN CITED WHEN WE ENCOUNTER VELOCITY OF SOUND IN DIFFERENT VELOCITY OF AIR AND ITS EFFECT ON SOUND VELOCITY. MICHELSON ALSO THOUGHT MOTION OF EARTH AROUND THE SUN SHOULD PRODUCE AN APPARENT MOTION OF THE ETHER-- THE SO CALLED ETHER WIND AS WE SEE AIR WIND IN A RUNNING TRAIN EVEN THOUGH AIR ITSELF IS AT REST. THE OUTCOME OF EXPERIMENT WILL BE SIMILAR IN CASE OF SOUND VELOCITY AND VELOCITY OF LIGHT WILL BE DIFFERENT. SO HE WAS SURPRISED TO SEE THAT LIGHT VELOCITY IS NOT CHANGING WHAT EVER MAY THE DIRECTION OF FOCUS. EISTEIN DECLARED THAT GALILEAN TRANSFORMATION IS THE CULPRIT. LET US THINK OF AN EXAMPLE- A FISH IS SWIMING DOWNSTREAM AND UPSTREAM IN A RIVER. THE OBSERVED VELOCITY OF FISH WILL BE DIFFERENT IN THESE TWO CASES AND GALILEAN VELOCITY ADDITION IS PRFECTLY CORRECT. NOW THE FISH IS SWIMING IN A VERY THIN NONVISCOUS OIL SO WE WILL SEE THAT UPSTREAM OR DOWNSTREAM VELOCITY OF FISH IS NEARLY EQUAL. APPLY GALILEAN TRANSFORMATION AND SAY AS EINSTEIN SAID GALELEAN TRANSFORMATION IS THE CULPRIT. WE CAN SAY IN BOTH THE CASES WHETHER FISH IS SWIMING IN THIN OIL OR PHOTON IS

FLYING IN ETHER- GALILEAN TRANSFORMATION SHOULD NOT BE APPLIED IN THE FIRST PLACE- THATS ALL--NO FURTHER ASSUMPTION. BUT EINSTEIN ASSUMED SO MANY THINGS IN IT AS AN OUTCOME OF THE SIMPLE EXPRIMENT. HE ASSUMED VELOCITY OF LIGHT IS AN UNIVERSAL CONSTANT. THIS ASSUMPTION HAS NO BASIS AT ALL. MICHELSON DECLARED THAT THERE IS NOTHING CALLED ETHER. THIS IS ALSO NOT CORRECT. AND THE VELOCITY OF LIGHT AS THE LIMITING VELOCITY IN THE UNIVERSE HAS NO PROOF WHAT SO EVER. . HERE EINSTEINS CLEVERLY APPLIED HIS TRICK TO GET RID OF GALILEAN TRANSFORMATION AND REPLACE IT WITH LORNTZ TRANSFORMATION WHICH IS TOTALLY WRONG TO APPEASE VELOCITY OF LIGHT AS UNIVERSAL CONSTANT. ACTUALLY THE SCIENTIST COMMUNITY INSTEAD OF ASKING A FEW BASIC QUESTIONS WERE HYPTONISED BY THE DRAMA AND MAGIC OF LORENTZ TRANSFORMATION AND NON EUCLEADIAN GEOMEYRY EFFECT IN THE THEORY OF RELATIVITY. SPACE CONTRATION , TIME DILATION--CONFUSION IN PAST, PRESENT AND FUTURE ALL ABSURD EXPLANATION DILUTED THE MAIN ISSUE THAT WHEN PHOTON JUMPS FROM A INERTIA FRAME NO INERTIA VELOCITY ADDITION AS IN THE CASE OF A BULLET OR SOUND WAVE WHEN MOVES WITH AIR AS THOUGHT OF IS ALLOWED FOR OBVIUS REASON THAT PHOTON HAS NO INERTIA MASS OR THE ETHER IS CARRYING THE PHOTON AS WE SEE IN CASE OF SOUND WAVES IN AIR. ETHER IS A O LEVEL MATTER IN BETWEEN MATTER AND ANTI MATTER AND THERE IS NO KNOWN METHOD TO DETECT IT SO FAR EXCEPT ITS HIDDEN ENERGY WHICH WE NOTICE WHEN WE SEE POPPING UP OF POSITRON AND ELECTRON IN VACCUM. OR GRAVITATIONAL NEGATIVE PRESSURES ON PHYSICAL BODIES WHICH WE CALL GRAVITATIONAL FORCE. NOW WITH THE HELP OF LORENTZ TRANSFORMATION AND NON EUCLEADEAN GEOMETRY THE UNIVERSE HAS BECOME A MAGICAL DRAMA WITH TIME MACHINE, TIME DILATION, SPACE CONTRACTION, ETC ETC --ALL SORTS OF PARADOXES AND MAGIC. BUT WITHIN A LIMITED DOMAIN OF MODERATE GRAVITATION THE RELATIVITY THEORY AND THE THEORY OF GRAVITATION THERE WAS NO CONTRADICTIONS. THERE FORE I HAVE TRIED TO EXPLAIN THAT EINSTEINS RELATIVITY THEORY IS A THEORY BY DEFAULT AND IT HAS VERY LIMITED DOMAIN OF APPLICATION. IF WE HAVE TO EXPLORE THE TRUTH OF THE UNIVERSE THEN WE HAVE TO INVENT A THEORY BASED ON AVOGADROS LAW IN CONJUNCTION WITH GRAVITY MATTER OR ETHER AND PLANCKS HYPOTHESIS. IN FACT ALL UNIVERSAL CONSTANTS IS TO BE STUDIED TOGETHER TO FIND OUT THE LINK IN THE FORMATION OF THE UNIVERSE. BY SIMPLY OBSERVING SPECTRAL LINES OR 3DEGREE KELVIN WE CAN NOT CONCLUDE THAT OUR UNIVERSE IS ORIGINATED FROMM BIGBANG. PRESENT ENTROPY OF THE UNIVERSE IS AN INDICATION OF 3DEGREEKELVIN PHENOMENA. WE MAY HAVE TO RETURN TO OUR BASICS WITH THE DEFINITION OF SPACE,MATTER , ENERGY, FIELD ETC. AS PER MY HOME WORK I AM FINDING MY CALCULATION DONOT AGREE WITH THE BIGBANG THEORY OR ORIGIN OF TIME OR ANY SPACE LIMITATION IN THE UNIVERSE. RATHER IT SUGGESTS THAT UNIVERSAL PHYSICAL CONSTANTS ARE CHANGING TO CREATE AN EVOLUTION IN THE RATE OF CHANGE OF TIME AND OVERALL ENTROPY OF THE UNIVERSE AND DIRECTION OF TIME WHICH WE ONLY SEE IN OUR CONCEPT OF ENTROPY. IN FACT I HAVE FOUND THAT THE BASIC IDEAS IN THE DEVELOPMENT OF DIFFERENT LAWS AND UNIVERSAL PHYSICAL CONSTANTS ARE NOT VERY CONVINCING ENOUGH AND UNLESS OUR MODERN PHYSICS IS REINVENTED IN A MORE SOLID GROUND , WE CAN NOT EXPECT A TRUE SCIENCE. HOW EVER THE APPLICATION IN ENGINEERING DO NOT REQUIRE VERY FINE TUNING OF PHYSICS AND WE CAN ALWAYS USE OUR PRESENT KNOWLEDGE TO DEVELOP INSTRUMENTS TO THE PROCESS OF FINE TUNING. IF WE LOOK AT THE KINETIC THEORY OF GASES AND THE USE OF BAROMETRIC FORMULA BY BOLTZMAN WHICH SAYS CONCENTRATION OF AIR MOLECULES AS A FUNCTION OF HEIGHT WITH OUT PROPER APPLICATION OF GRAVITY OR BLINDLY COPYING MAXWELLS VELOCITY DISTRIBUTION FUNCTION APPLICABLE FOR ALL GASES CAN NOT GIVE A TRUE PICTURE IN THE WORLD OF GAS MOLECULES. THEREFORE WE SEE AN APPROXIMATION AND NOT THE EXACT. A THEORY SHOULD BE MORE ACCURATE HERE AVOGADROS LAW AND MY NEW GRAVITY MATTER THEORY CAN HELP US TO UNDERSTAND MICRO WORLD AND I AM WOKING ON THE MATHEMATICS OF IT. MY PRESENT WORK IS INTERSTING IN MANY WAYS FROM THE VIEW POINT OF AN ENGINEER WHERE I HAVE QUESTIONED MANY AREAS OF MODERN PHYSICS FOR EASY ASSUMTIONS AND VAGUENESS. TWO CENTURIES AFTER THE DISCOVERY OF NEWTONS LAW AND A CENTURY AFTER THE WRONG FORMULATION OF EINSTEINS RELATIVITY THEORY AND DEVELOPMENTS OF EINSTEINS THEORY OF GRAVITATION WE ARE IGNORANT ABUOUT THE SECRETS OF THE PHENOMENA OF GRAVITATION.

WE DO NOT REALLY KNOW EXACTLY WHETHER LIGHT IS A ELECTROMAGNETIC PHENOMENA AND MY CALCULATIONS SUGGEST IT IS NOT AN ELECTROMAGNETIC PHENOMENA ALONE. CONTROVERSIES ON THE HYPOTHESIS OF ETHER IS NOT YET SETTLED AND A LOT OF EXCITEMENT CAN BE STORED IF WE CAN PROVE THAT LIGHT IS NOT ELECTROMAGNETIC WAVE AND THE CORPUSCULAR NATURE OF LIGHT AS DESCRIBED BY EINSTEIN IN HIS PHOTO ELECTRIC THEORY BY ASSUMING ELASTIC COLLISION OF PHOTON AND THE APPLICATION OF CLASSICAL IDEA OF CONSERVATION OF ENERGY AND MOMENTUM CAN NOT EXPLAIN THE REAL

PHENOMENA BUT AGAIN A DEFAULT THEORY IS BORN TO EXPLAIN CERTAIN EXPERIMENTS. ACCORDING TO MY WORK LIGHT IS A WAVE DUE TO TO INTER ACTION OF \ OR VIBRATION OF GRAVITY MATTER BY SOME ENERGY SOURCE ? WHICH MAY BE ELECTRO OR MAGNETIC OR ANY OTEHER. AND THE ENERGY WHICH CREATES THE VIBRATION IN GRAVITY MATTER IMPARTS A FREQUENCY ON THE WAVE AS PER THE PLANCKS LAW. SO WE ARE ARRIVING AT A SIMILAR CONCLUSION THROUGH A DIFFERENT APPROACH AND I AM READY TO SUBMIT ALL MY CALCULATIONS ON THIS NEW APPROACH WILL REMOVE THE ELASTIC COLLISION THEORY AND CONSERVATION OF MOMENTUM APPROACH OF EINSTEIN WHICH ATLEAST I CAN NOT THINK OF IN CASE MICRO LEVEL ELASTICITY OR HOW CAN YOU THINK OF A MOMENTUM OF A PHOTON. THE IDEA OF EINSTEINN IS ANOTHER CLASSIS EXAMPLE OF DEFAULT THEORY ON WRONG ASSUMPTION BUT ACCURATE ENOUGH TO PREDICT EXPERIMENTAL RESULTS. I HAVE ALREADY EXPLAINED THAT LIGHT WAVE CAN NOT BE DEFLECTED BY MODERATE GRAVITY EXCEPT IN VERY STRONG GRAVITY OR ENHANCED OR RETARDED AS WE THINK OF IN CASE OF SOUND IN AIR. SOUND CAN BE STOPPED BY REMOVING AIR BUT WE DONOT KNOW MUCH ABOUT THE INTERACTION OF ENERGY AND GRAVITY MATTER AS IT IS NEITHER MATTER OR ANTIMATTER. CERTAIN ELEMENTARY PARTICLES LIKE NUTRINO MAY BE INVESTIGATED FURTHER. A NEW KIND OF PHYSICS IS TO BE CREATED WHICH WILL BE TO PRODUCE A UNIFIED THEORY OF NATURAL WORLD AND PHYSICISTS ARE IN CONSTANT SEARCH WHICH WILL DIRECT THE FUTURE RESEARCH AND THE ANSWER LIES IN OUR UNDERSTANDING OF GRAVITY MATTER AND PROPAGATION OF LIGHT IN THE BEGINNING OF OUR UNDERSTANDING SPACE- TIME -- AND BOUNDLESS UNIVERSE.. WE HAVE NOT YET COVERED IO PERCENT CONTINUOUS NEVER-TO-END ATTACKS ON THE STRONGHOLDS OF NATURE. IN MY OPINION THE PRESENT SYSTEM OF APPROXIMATION IN OUR DIFFERENTIAL AND INTEGRAL CALCULUS AND THE APPLICATION OF LIMITS THEOREM REQUIRE A MAJOR RELOOK SO THAT OUR CALCULATION AND COSMOLOGICAL OBSERVATION TALLY TO REPRESENT THE TRUE NATURE OF REALITY BY MATHEMATICAL ANALYSIS. OUR PRESENT DAY MATHEMATICS IS MANY WAYS CONTRADICTORY TO UNDERSTAND THE UNIVERSE AS MY CALCULATIONS ON MANY UNIVERSAL PHYSICAL CONSTANTS DEFINITELY INDICATE THAT POSSIBILITY. WE HAVE TO REPAIR OUR MATHEMATICAL KNOWLEDGE IF WE WANT TO EXTRACT PRDICTIONS OUT OF IT AS WELL AS CONFIRMATION OF OUR THEORIES.
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THANKING YOU.

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Sunday, February 18, 2018
EXPANSION OF SPACE AND RED SHIFT.

AUTHOR-DURGADAS DATTA.
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ABSTRACT:
Our matter universe is inside an antimatter universe on opposite entropy path and reverse arrow of time. The common boundary is violent due to annihilation of matter and antimatter producing an exotic mixture of force carrying and quarks known as gravitoetherton super fluid . This mixture is injected into both the universes for growth and we call this as AETHER or space around us. So vaccum as completed in quantum physics is this dynamic entity present everywhere as non isotropic field dynamism . Absolute void devoid of any dynamism or a dead entity is not found in our universe but some places may be so dilute that it appears devoid of anything.

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.If that is so, then the question of red shift in light propagation can be debated as the space is growing and not stretching or may be it is growing and starching together and we unnecessarily calculate distance of stars with wrong assumption of only stretching

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My balloon inside balloon theory published in year 2002 defines a re cyclic and re bounce scenario due to one universe attaining very low entropy , when a BIG BOUNCE will occur giving Dr.Guth an exponential inflation and the force of the bounce will decide the subatomic in tetra quark , penta quark , etc structures . After around 400000 years ,we will see galaxy formation around escaped evaporation black holes as seeds from previous ERA.

……

.Therefore our universe is inside a forming black hole preparing for the next bounce and if the laws develop benign and tuned with may be three quark structures ,then again a fruitful universe with intelligent life is possible somewhere on a planet like earth.

Standard model describe interactions to a great extent but the mechanism of gravity is unknown and wrongly calculated dark energy and dark matter is still poorly understood.

Even the Rutherford model of atomic structure is questionable as pulp proton atomic model describe protons as smeared around core neutrons as pulp , rather then co existing as prescribed by Rutherford. Therefore the assumption of strong nuclear force and gluons will be replaced by my boson graviton with some corrections in the present model.

So far, the constituents of exotic gravitoetherton super fluid swirling and whirling,flowing etc in non isotropic manner which Einstein described curvature of space-time proposing gravitation and giving a wrong concept of cosmology constant , is not deciphered in LHC and a source of speculations beyond standard model. The

calculations even hijacked a 120 order mismatch of vacuum energy placing modern physics in doldrums. The concepts SR, GR and assumptions of constant maximum light speed in so called vacuum of Einstein and rejecting ether from MM experiment has been debated with the proper interpretation of time . Every point in space has its own reference frame speed and gravity and atomic clocks will measure a local time accordingly. So satellite time corrections never certify Einstein about his time dilation concept and consequently prescribes measurement dilation . We can not take time as fourth dimension in space-time and we have to detach time from concept of space-time.

……

Rather treat the space as gravitoetherton superfluid as a thermodynamic ,entropical jumps from point to point on local entropy gradients giving a different rate of time . There is no absolute concept of anything including time as our universe has no absolute speed or even laws and constants……

Our position of solar system is like oasis in desert , where water is available with benign laws and low gravity making life possible.

Again the observable universe is so tiny compared to whole that astronomical observations can not always guide us about the whole even with very smart instruments.

……

.In my various papers, I have said that gravity is an emergent force due to push of fermion gravitons in the direction of its flow in the gravitoetherton superfluid. On earth surface , fermion gravitons are flowing like arrows to wards center of earth , pushing all molecules producing equal fall . As such we can calculate m/dd is constant for all molecules at a particular height ,so that equal fall is possible. IF we further look the rate of fall ,then we can calculate that fermion gravitons must be around 750 proton mass for acquiring the acceleration due to gravity. Fermion gravitons converge at center of earth to give a molten magnetic core. Also the galaxies are rotating as a fluid disk and the fermion gravitons are locating more and more due centrifugal force TOWARDS periphery by a factor acting as a centrifuge . Dr. Rubin thus plotted a galaxy rotation curve not obeying Newton and proposing DARK MATTER. But FERMION GRAVITONS HAVING 750 PROTON MASS IS DARK MATTER IN ITSELF. If we wish , we can modify Newton as F=P.G.Mm/R.R .

……

……My suggestions will be to rethink about cosmology on red shift theory and taking light speed constant across universe and give a relook on dark matter and dark energy and the propagation of light, concept of time , the mechanism of emergent gravity and searching for FERMION GRAVITONS AND BOSON GRAVITONS rethinking about strong nuclear force and present atomic model.

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EMERGENT GRAVITY WITH TWO KINDS OF GRAVITONS –FERMION GRAVITON WITH MASS FOR A MOLECULAR CLASSICAL GRAVITY AND A MASS LESS BOSON GRAVITON FOR A QUANTUM LEVEL ACTION ON QUARKS FOR A STRONG NUCLEAR FORCE.

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MAY , 2016.
PAGE-ONE.

Abstract:
Our universe with five percent matter and remaining dark energy and dark matter is a profound realization of modern astronomy throwing modern physics in big crisis with a number of questions. Are we comfortable with relativity and gravity theory of Einstein? How gravity mechanism can be explained? Can we say that dark energy is having direct link with gravity mechanism? Do we have to revise atomic model without strong force? Then can we prove that all remaining three forces are electromagnetic due to mono magnetic coupling in dark energy gravitons? How all the molecular couplings are same to cause equal fall of Galileo or equal number of molecules from Avogadro. Is equivalence principle is local phenomena or universal? Chemistry may not be possible in many parts of our universe due to non applicability of Avogadro law. Any correction required in number of quarks due to revision in standard model without strong force? All these issues can be taken up by LHC for further exploration and I tried to give some proposals in my essay in describing how our universe can be viewed from big bounce to present day and some analysis of modern idea of Dr.Guth's exponential inflation at the time of big bounce as well as interpretation of BICEP2 .

Essay:

When we look at the history of developments in modern physics, we are at a loss to answer many basic issues left unattended. The mechanism of light propagation was not fully understood from double slit experiment and Einstein developed his theory on photo electric effect by assuming photons as flow like bullets without the need of any medium. The wave of electromagnetic in a medium called ether was popular but also the need of ether was rejected from Michelson Morley experiment and relativity theory was developed rejecting ether on equivalence principles. .

PAGE-TWO

Maxwell developed his equations on electromagnetic propagation from wave theories

taking ether as medium. Experiments conducted to confirm the equations as basic tool in electromagnetic propagation.
Relativity theory with isotropic frame and maximum light speed limit in vacuum was a successful outcome resulting in GPS and tested in our solar system again and again. Space is warping around matter to look as gravity and the time is taking a dimension in space-time convolution to solve our research on astronomical as well as quantum theories quite successfully but the old questions in double slit experiments remained. Vacuum energy was required in many quantum laws with virtual particles when Casimir effect was found experimentally.
It was a clear indication of some real exotic particles mediating force everywhere and Einstein though stumbled with cosmology constant from his equations but ignored till Hubble showed the expansion of the universe. Something is there like ether doing all these acts but whether isotropic throughout universe or what connection it may have with gravity was not explored and it was assumed isotropic cosmology constant value which calculations hijacked into an unbelievable figure.
Something is wrong going on but no body expected that Newton's gravity laws may not be applicable in galactic rotation, requiring the need of dark matter. The doubt on equivalence principle cropped up as well as relativity theory of isotropic universe. Soon we saw the accelerating picture of our universe from supernova observations beyond doubt necessitating a dark energy component and calculations show matter is only five percent and rest is dark matter and dark energy.
New cosmology observations found dark pull and dark flow as if something is pulling from outside our universe.
An attempt was made to revise Newton in MOND theories but the gravity mechanism is not known and Einstein's special gravity theory failed to account for such observations. Gravity wave search is going on as well as dark matter and dark energy from heaven to remote deep mines.
On the other hand in quantum physics, the experiment by Rutherford never concluded definitely the protons and neutrons at center of atoms but strong force was assumed and Bohr tried to explain scattering by orbital jump theory of many electron orbits to a limited cases of light gases.
With all these knowledge, we developed a standard model on probability and uncertainty along with many versions of string theories. Experiments supported standard model though people were doubting the frame work. Are we sure that quantum physics is a calculus game? Are we sure that there are six quarks downloaded from standard model? Are we sure Higgs Boson derivation is correct from standard model? Or the revised atomic model more correctly describe two quarks –top and bottom without the need of strong force on a proton pulp atomic model.
Is it possible that our universe is electric with dark energy non isotropic field density soup of mono magnetic gravitons and anti gravitons swirling and whirling in galactic rotation revising Newton as..F=P.G.M.m/R.R where P is permeability factor of non isotropic dark energy we also call ether.
Why we are not sure about standard model Higgs Bosons found in LHC as if it may not be the reality when mass can also be intrinsic property like charge. Mass can not be

acquired if we say E=M .C SQUARED. The methods are contradicting. Professor Higgs

with old calculations cannot dictate LHC results and CERN is looking for revised physics beyond standard model .
many others. These developments in astronomy and quantum physics are recent but I published a few articles in ASTRONOMY.NET in year 2002 predicting all these recent observations through his /1/ MISJUDGEMENTS OF NEWTON AND ETHER=GRAVITY=DARK ENERGY THEORY OF UNIVERSAL MONO MAGNETIC SOUP,-----/2/ BALLOON INSIDE BALLOON THEORY OF MATTER ANDANTI MATTER UNIVERSE ON OPPOSITE ENTROPY PATH producing dark energy at common boundary by annihilation and injected into both the universes to cause the drama of all laws, gravity, expansion etc. etc. in non isotropic swirl and whirl soup of mono magnetic coupling rendering universe electric. So ether is mono magnetic non isotropic electrical where light is electromagnetic wave transmission and gravity is mono magnetic coupling of graviton component on matter molecular coupling causing equal fall of all molecules known to Galileo or equal molecules in Avogadro's law when temp and pressure are same for the gases.
Now we have to find out these couplings from 100 TEV. LHC experiments to revise standard model for further research and to establish my ideas. Directional push of gravitons due to a repulsive coupling effect of mono magnetism on molecules is the effect ,we call gravity. Gravitons , a component in dark energy are non isotropically distributed and have a direction of flow to give directional push. Near earth , we see gravitons are flowing like arrows to wards center of earth to create a magnetic molten core and may be a mini black hole. Matter molecules of different mass are pushed to fall and Galileo observed that all molecules fall equally. But why may be a question. Let us say that pushing force of gravitons on a molecule is F . Then F varies with 4 pie R squared. Again acceleration…
ACCELERATION= FORCE/MASS of a molecule and observed constant by Galileo. So we can say that R squared divided by mass M is constant for any molecule. That is why M/R.R =CONSTANT for any molecule which can be checked from experiment.
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This emergent push graviton gravity theory tells us that gravity is not fundamental force as prescribed by standard model So gravitons need not be mass less but the emergent theory predicts it's mass about 750 proton mass. This is a FERMION graviton having mass and qualifies for a candidate as a dark matter in itself.
As such gravitons are dark matter in itself.
Another emergent effect of gravitons is its interaction with color charge quarks inside protons and neutrons through a residual coupling charge. This graviton is a BOSON graviton having no mass . Here BOSON gravitons work as force carrier for a strong nuclear force in quantum gravity in the making of any atomic nucleus. Therefore the assumption of gluon and strong nuclear force is wrong. It gives rise to my atomic theory of pulp proton model ,which can be described separately. When the unbalance residual become bigger in bigger atoms with many protons and neutrons, we see a weak nuclear force causing disintegration for a radio activity effect due to Z-bosons which is another sub atomic entity in the gravitoetherton super fluid. .
We can imagine the galaxies are rotating as a super fluid disk so that the gravitons are

getting more and more dense from center of galaxy due to centrifuging action. The

periphery will be more concentrated and the galactic rotation curve as observed by Dr.Rubin as horizontal, can now be explained by these distribution of heavy gravitons and no need of assuming any further dark matter. Now the development of universe structure is quite evident as opposite entropy path will bring one universe to tends to zero entropy when BIG BOUNCE will occur and Dr. Guth exponential inflation will start and soon accelerating expansion due to dark energy causing dark matter scaffolding around left over black holes escaped evaporation from previous era to act as seeds for galaxy formation and so on when at a cozy corner, we will have good laws by chance to create life on a planet and ponder about our universe. We have recently seen the great swirls of galaxy formation around escaped evaporation black holes from previous era in BICEP2 as well as in CMB .

There is no reason to reject a negative entropy for a antimatter soup of the universe surrounding our matter universe. This soup of antimatter will evolve as primordial soup with very low entropy for causing the next bounce.

The antimatter universe never evolved as a universe as per my theory due to a negative entropy path and reverse arrow of time. This has profound implications as the antimatter universe in plasma is gradually getting reduced in volume due to formation of black hole on reverse time but never a structure of an universe .

So the antimatter universe engulfing our matter universe is actually turning to black hole from plasma soup of antimatter on opposite entropy path and sooner or later will reach very low entropy when a BIG BOUNCE will occur giving Dr.Guth an exponential inflation . Thus the scenerio is ever re cyclic, re bounce with different laws from epoch to epoch and by chance tuned laws for our existence. Now our universe may be inside a black hole.

The scenario is ever dynamic re bounce, re cyclic forever in a mega universe infinite backdrop of many balloon inside balloon. Time has no beginning or end but entropical gradient flow nonsymmetrical snap shots – never absolute or a dimension causing all presents in the film roll of our existence. We cannot compare time at different parts of the mega universe.

Time given by atomic clocks are due to gravity changes from point to point in space and not as defined in relativity theory. GPS time corrections never certify Einstein for his relativity theory.

Infinite mega universe is possible as it is total void –as such zero but occupied by all balloons inside balloons with the dark energy, dark matter giving scaffolding of structures. Dark matter is concentrated dark energy and when dark energy is getting focused at center of earth or center of galaxy, we get black holes, many times less focus may cause hot molten magnetic core etc. etc. Dr. Hawking also of the same opinion about black holes. Read my theories published in ASTRONOMY.NET and sent to all science forums from year 2002 and now the observations seem to be giving some ideas of NEW PHYSICS of tomorrow. The emergent gravity mechanism tells us that when an object fall , we see that gravity pressure on molecules gradually changes by a factor 1/R.R where R is distance from center of earth . That is why EQUIVALENCE PRINCIPLES may not be true and as a result RELATIVITY THEORY based on equivalence principles may not be exactly true but approximately true in low gravity solar system PAGE-FIVE

Due to limitations of words, I am giving a quick glimpse in narration but some mathematical models also can be provided if so desired.

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The time , space and our concept of reality from adopting light speed constant and relativity.

Einstein tried to explain MM EXPERIMENT null result by postulating speed of light constan by any observer on any reference frame. So if you approach a light source or move away from light source, you can not apply Galilean Transform . Einstein developed relativity by applying Lorentz Transform instead of Galilean Transform.

He never explained what is all pervading EM WAVES which must have been emitted photon by photon from source with different time tag as presnt all around to an observer . So time has been confused here itself. Now if you give photon by photon a time tag and can apply Galilean while approaching or moving away from the source. He never explained that situation also but postulating speed of light constant served his purpose to explain MM results and developing relativity theory with a bizzare concet of TIME DILATION. I always say it is not time dilation but measurement dilation. My heart beats seventy on sea shore and seventy five on a mountain per minute. Should I count my heart beats to measure time not knowing that oxygen supply actually changes heart beat. Atomic clocks also beat at various rate due to local gravity and it is obvious that clocks will mismatch with earth bound and satellite locations.

Scientiststs are happy that GPS correction proves relativity but that is not the case. TIME DILATION AS SUCH IS MEASUREMENT DILATION WHICH THEY NEVER ACCEPT. Then why to say SPACE-TIME and create some equations . Our solar system with low gravity may prove Einstein correct but Einstein is basically wrong .

The space is nothing but a gravitoetherton exotic super fluid swirling, whirling and flowing with all substance particles and force carrying particles which Einstein described as curvature of space .

The gravity and strong nuclear force are emergent phenomena due to fermion gravitons and boson gravitons as prescribed in my NEW GRAVITY MECHANISM THEORIES PUBLISHED IN VIXRA.ORG.

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Name of the ESSAY: What is FUNDAMENTAL.

ABSTRACT: The search for fundamental is the motivation in our knowledge of the universe as appear before us. Our perceived universe is from all senses , observations in instruments and reflections in our known theories. As all these procedures have major flaws in our limitation in senses and probabilistic interpretation in theories, we sometime say –Shut up and calculate as if calculations from known mathematics will rescue us from our vagueness in understanding.

Einstein spent about thirty years of his life in futile exercise of a THEORY OF EVERYTHING. Even his genius could not fathom the complexity of a fundamental when cause and effect submits to Born probabilistic Copenhagen interpretation. It is impossible to consider that our world is not emerging from cause and effect but by chances . Probably we do not take care of all causes due to our inability from present standard model and highly assumed quantum physics. This desperation led us to many worlds interpretation of multiverse theory which may be true but not proveable conclusively as it appears today

As a result the question of what is fundamental is becoming more interesting because each universe may be built up on few fundamental building blocks of force carrying and material entities by mere chance following a set of natural laws on probabilistic outcome due to leakage into higher dimensions . So the source of such primary building blocks and the prevailing natural laws is the first fundamental which is often disguised in many worlds interpretation . Again the question of changing universal constants as well as natural laws with the passage of time can not be ruled out even in our own universe .

So far our stable matter as we see in proton ,electron and neutron is various combinations of only two quarks –up and down in three quark geometry. But penta quark has been seen and who knows what is the theory of more and more quarks combination in material entity.

So in my opinion theory of quarks assembly in elementary material entity can lead us to a better outlook in multiverse and that can be a fundamental search.

I strongly believe that then natural laws will follow from these basic combination of three, five etc etc quark structures in elementary particles formation and multiverse will be an infinite garden of many flowers , each having a distinct flavor, color and thriving on its own natural laws or may be perishing due to mathematical validity .

I am sure that mathematics can not be very much varying from universe to universe and only a careful mathematics can guide us to understand multiverse. So MATHEMATICS is fundamental and a blob block theory of a three dimensional cubit SPHERE of size PLANCK LENTH DIAMETER , containing information of the BIG BOUNCE may give rise to a particular universe on a specific fine tuning , where intelligence can look for such questions.

I published many papers in year 2002, highlighting the fact of multiverse possibility . The infinite void of absolute nothing called true vacuum is harboured by many many universes with many flavors of laws and basic entities like many flowers in a garden .

In our case, we live in a balloon inside balloon configuration of matter universe inside an antimatter universe on opposite entropy path and reverse arrow of time. The common boundary is very violent due to annihilation of matter and antimatter where gravitoetherton superfluid consisting of matter carrying and force carrying particles are created and injected into both the universes for growth . The outer universe is slowly turning into a black hole when due to low entropy , a BIG BOUNCE will occur giving Dr. Guth an exponential inflation and this jerk of inflation will decide what kind of matter –say three quark or five quark baryons will be produced and what laws they will follow. Then after 400000 years , we will see galaxy formation around escaped

evaporation black holes from previous era for further march.
So the intensity of the primordial bounce is fundamental to decide about the outcome . Then after many years we will arrive and ponder about due to by chance benign laws . In my separate papers submitted to FQXI earlier, I have said gravity is emergent force due to push of heavy FERMION GRAVITONS and predicted M/R.R is constant for any molecule. Also I have said that strong nuclear force is emergent due to BOSON GRAVITONS acting as gluons in quarks configuration. The strength of BOSON GRAVITONS decide about three quark and five quark etc configuration of elementary PARTICLE and force of RE BOUNCE decide about the strength of BOSON GRAVITONS or even Fermion gravitons. All galaxies rotate as superfluid disk and the heavy fermion gravitons position themselves by the centrifugal force as in centrifuge. The outer periphery is more and more dense from center , so that stars at outer periphery rotate as observed by Dr. Rubin revising Newton as F=PG.M.m/R.R. here P is density factor.
Therefore I have proved that all the four forces are electromagnetic in nature and emergent from eletro-magnetism Also it is known that magnetism is outcome from electrical charges explained by Faraday.
So basically two opposite nature quarks along with two opposite nature electric charges are the fundamental in emergent electromagnetic and

other three forces. Due to symmetry of existence all opposites exist to balance each other , because even multiverse is absolute ZERO if you take into account of all positives and negatives.

My theory of SYMMETRY give all kinds equal opposite configuration from basic fundamental quark and electric charge in Kalidoscopic infinite multiverse . But the basic question remained,--what is a quark in its entity and charge in its formation. We are searching in LHC and we will know that there may not be a theory of everything or even the source of basics fundamentals like charge and quark .

DATE.-26/12/2017

OUR UNIVESE , CAUSE AND EFFECTS ,SEARCHING FOR A FUNDAMENTAL.. ***DATE 9/1/2018***

AUTHOR-DURGADAS DATTA . MECHANICAL ENGINEER WITH INTEREST IN PHYSICS. E-MAIL:durgadas.ddatta@gmail.com. COUNTRY—INDIA.

PAPER FOR PUBLICATION: GRAVITY MECHANISM AND A THEORY OF THE UNIVERSE PRESCRIBING WHAT IS FUNDAMENTAL.

Abstract: Standard model given us a basic understanding of twelve matter carrying fields and four force carrying fields to visualize actions and reactions in a quantum vacuum field of HIGGS FIELD.
LHC detected Hggs field and a Nobel prize was given.
But we are not sure about the kind of HIGGS as described in standard model and a lot of questions cropping up.
It is clear from standard model understanding that our universe is a sea of many matter and force carrying fields swirling and whirling as an exotic super fluid which I named gravitoetherton super fluid.
There is no reason to believe that this field density should be isotropic as prescribed by Einstein as COSMOLOGY CONSTANT. So quantum vacuum is basically a bubbling froth where the drama of all interactions take place . We also think that virtual particles appearing and disappearing to keep the account clean in calculations of QCD/QED from Fdiagrams.
But the greatest puzzle of 120 order magnitude remains without any satisfactory explanation. Under such basic assumptions and a standard model along with probabilistic quantum physics , we are searching for a theory of everything .
Some new ideas and NEW PHYSICS is required to go beyond and accepting that neither SR and GR of Einstein can be taken for granted .
So what I will be discussing now may look as not following current

frame of physics and even some imagination to be checked in further experiments in LHC .

What is gravity? Where are the gravitons? Newton prescribed gravity is a force of attraction between masses but Einstein conceived a picture of curved space-time to appear as gravitational flow.

Though Einstein rejected the requirement of ether from MM experiment but failed to explain why space-time will curve. But his equations to balance the force of the universe due to gravity required a fudge factor named cosmology constant to describe static or expanding universe .

And the mechanism of gravity remained unknown. Modern physics considers graviton as mass less spin 2 exchange type particle in standard model . Gravitons have not been seen so far and a quantum theory of gravity or emergent gravity model etc are popular which may not be true .

There is no accepted point of view in gravity mechanism due to lack of data.

In the year 2002 I published a few papers namely, 1// ETHER=GRAVITY=DARK ENERGY THEORY OF GRAVITOETHERTON SUPER FLUID UNIVERSE. .2//BALLOON INSIDE BALLOON THEORY OF MATTER AND ANTIMATTER UNIVERSES ON OPPOSITE ENTROPY PATH AND REVERSE ARROW OF TIME.

I imagined our matter universe inside an antimatter universe on opposite entropy path and reverse arrow of time giving rise to a re bounce ,re cyclic scenario instead of a big bang.

The common boundary of these two universes is violent due to annihilation of matter and antimatter where an exotic mixture of some force carrying particles as well as quarks are generated and injected into both the universes for growth. Long after we even got some indications of a parallel universes in dark flow or dark pull observations.

Now the question of what is fundamental is being discussed in science forums and I beg to state that the situation when one universe in my theory reaches a very low entropy, a BIG BOUNCE will give Dr. Guth and exponential inflation. The most fundamental is the force of rebounce and this force will decide the configuration of quarks , namely TeTRA QUARK OR PENTA QUARK etc etc giving the laws of nature accordingly to manage the situation afterwards.

I do not have a good mathematics for describing how the tetra quark or penta quarks from the initial BIG BOUNCE OR EVEN THE LAWS OF NATURE. Then we know as happened in our universe of galaxy formation around escaped evaporation black holes as seeds –may be after 400000 years . The evolution of our universe thereafter is described in our model . I WILL NOW EXPLAIN THE THE SWIRLING AND WHIRLING , FLOWING ETC ETC OF THIS GRAVITOETHERTON SUPERFLUID WHICH EINSTEIN DESCRIBED CURVING OF SPACE-TIME. The two most important constituents in gravitoetherton super fluid are FERMION GRAVITONS FOR NEWTONIAN GRAVITY AND BOSON GRAVITONS FOR STRONG NUCLEAR FORCE. Let me stress here that gravitoetherton super fluid is non isotropic field density due to concentration of gravitons. I n my theory the fermions gravitons have a mass of 750 proton mass due to observed acceleration due to gravity on earth surface. These FERMION GRAVITONS are very very small in size but heavy and only effect is gravity push towards its direction of flow. On earth surface the fermion gravitons are flowing like arrows towards center of earth and pushes all molecules so that there is equal fall of heavy or light molecules.
The fermion gravitons are gradually getting concentrated as it flow towards center of earth. THE SPHERICAL AREA GETTING REDUCED BY A FACTOR 1/R.R WHERE R IS THE DISTANCE FROM CENTER OF EARTH. THEREFORE THE MOLECULES MUST ADJUST SIZE FROM THE CENTER OF EARTH TO SUSTAIN A CHANGING FORCE ON IT FROM FERMION MOLECULES FOR A EQUAL FALL. ALL MOLECULES FALL EQUALLY ALSO AVOGADROS THEOREM IS VALID. THEREFORE AS ALL MOLECULES HAVE DIFFERENT MASS AND VOLUME , WE CAN DERIVE THAT M/R.R FOR ALL MOLECULES MAINTAINS CONSTANTCY FOR EQUALL FALL. HERE M IS MASS AND R IS RADIUS OF ANY MOLECULE. THIS IS PUSH GRAVITON THEORY. IF WE WISH, WE CAN REVISE NEWTON AS F=P.G.M.m/r.r where P is space graviton concentration factor. The center of earth is getting focused fermion gravitons giving a molten magnetic core. Now the galactic rotation curves as observed by Dr.Rubin is explained . The galaxy disk of gravitoetherton superfluid is rotating as a CENTRIFUGE , thereby the FERMION GRAVIONS are locating more and more from the center of the disk towards periphery allowing the outer stars to rotate as observed defying Newton.

So standard model description of graviton is wrong and soon we will find a heavy particle having 750 proton mass to qualify for FERMION GRAVITON. As such the mystery of DARK MATTER is solved as FERMION GRAVITONS ARE DARK MATTER IN ITSELF.

From this discussion it is obvious that in a chanced BOUNCE with right jerk force of BOUNCE , we will get right balance of quark configuration and consequent natural laws to allow formation of universe with tuned laws and configuration of quarks in matter formation so that a planet like earth may develop to harbor intelligent life to ponder about our universe and the question –What is FUNDAMENTAL.

Modern physics had a hard time in describing the space around us and with the concept of great AETHER. The question of absolute void ,, devoid of anything , any matter, any force any dynamism but absolute dead lifeless entity of absolute nothing was the point of consideration and many debates were arranged without any absolute judgement.

In the days of NEWTON , light was considered waves and as a result , we assumed something omnipresent as ETHER. But when Einstein developed photoelectric effect theory, the light was also considered as photons flow . The double slit experiment given us many new realities of nature and the wave particle duality of light as well as matter particles cant not be properly understood if we do not understand the space around us where all the drama of events taking place .

On the other hand , we know how quantum physics considers vacuum as frothing bubbles of something which is highly dynamic giving birth and death of virtual particles so that calculations in QCD/QED keep the account clean in quantum physics. Casimir effect was also known . Dark matter and dark energy was also discovered from cosmology observations . Soon Higgs boson was also seen in LHC and standard model came to a point when the total seventeen fields of standard model failed to describe what is all these dark energy and dark matter or even what is the mechanism of gravity.

The COSMOLGY CONSTANT idea of Einstein soon proved basically wrong because there may not be any constant nature of these strange dark behavior in accelerating expansion of the universe.

We can not also assume that vacuum has energy which is getting increased by expansion of space not diluting though volume increasing further with constant nature as prescribed by quantum physics. Everything now in doldrums indicating a NEW PHYSICS necessary.
All our considerations in MODERN PHYSICS when there is a mismatch of 120 orders of magnitude in our calculations should now be discussed in developing a NEW PHYSICS. In the year 2002, I established a research named –HOME RESEARCH ON GRAVITOETHERTONS on my own and published few papers namely---ETHER=GRAVITY=DARK ENERGY THEORY OF GRAVITOETHERTON SUPERFLUID AS NON ISOTROPIC SPACE AROUND US. And BALLOON INSIDE BALLOON THEORY OF MATTER AND ANTIMATTER UNIVERSE ON OPPOSITE ENTROPY PATH AND REVERSE ARROW OF TIME. Etc etc
The main idea was to look for a new vision beyond SR and GR of EINSTEIN and highlighting the flaws in quantum mechanics. The gravity was relooked as emergent phenomena due to presence of FERMION GRAVITONS push in the direction of flow on matter molecules . It was calculated from molecules fall rate which is acceleration due to gravity by the push of fermion gravitons flowing as arrows to wards center of earth. Thus fermion gravitons were found 750 PROTON MASS and as such dark matter in itself.
Newtonian gravity is not a fundamental force but emergent phenomena. Even the theory suggests that strong nuclear force is also emergent phenomena due to BOSON GRAVITONS . Further PULP PROTON atomic model suggests that nucleus of atoms is basically a cloud of positive charge waves around central core neutrons giving a new look to strong nuclear force and action of gluons which is boson gravitons on quarks. These are some of the developments to discuss and develop NEW PHYSICS with the help of LHC.
There is no doubt now that basic fundamental quarks and the entity named charge –positive or negative which culminates in even color charge in quarks formation are not understood from quantum physics and all rest phenomena like magnetism etc are emergent from fundamental.
I am not from physics community but with some basic knowledge, I can see that standard model though very successful and theories of Einstein though revolutionary , we have to further work without the concepts of EINSTEIN but a

new look of an exotic medium like gravitoetherton super fluid consisting of many exotic force carrying and matter carrying particles we call space and the dynamics may be super fluidic entropical jumps on local variable time based on local gravity potential and relative speed of reference frame .
Here the broad ideas of time is coming into consideration. We have to detach time from space-time concept of Einstein. Time is not absolute and relative point to point . Time is just a measurement of that variable at that point in space due to gravity potential and relative speed of that reference point. There is nothing absolute in our universe as all are in constant dynamism and measurement is just a local phenomena and as such time dilation is actually measurement dilation . There is no point in philosophical discussion on time as it is a variable at any space point and we are measuring everything relatively at that point and even time can totally vanish due to no entropical march point to point..
At any point in space ., time is snap shots of events on entropical as well as gravity based dance on Planck time obeying quantum laws of uncertainty but I BELIEVE THAT A CAUSE AND EFFECT EXIST ,SO THAT FUTURE IS DETERMINISTIC . We can not totally disregard cause and effect though there may not be possible to exactly know all cause and effect . Quantum physics will be further developed to take care of cause and effects.

The paper submitted under a controversy of existence of dark matter and dark energy and the influence of gravity .

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Abstract: When Einstein proposed a cosmological constant to establish a static universe and described the effect of gravity as a collapsing nature acting on our universe on the matter content , he assumed the gravity as pull as described by Newton in his famous apple fall investigation . But basically Einstein was clear in his gravity theory by not assuming gravity as a force but curvature of space-time. However to balance gravity collapse he had to derive a fudge factor naming cosmology constant as antigravity for keeping the universe static.

Then expansion of universe was seen by Hubble by red shift Doppler calculation and soon another group of scientists studied type 1A Supernova explosion as standard candle and found again by red shift calculation that universe is accelerating in expansion .

Why red shift , because the space is stretching and wave length of light getting towards red spectrum. In my balloon inside balloon theory published in year 2002, I said that gravitoetherton superfluid is injected into our universe from common boundary of parallel antimatter universe . Therefore our universe is growing bigger by injection of this super fluid we also call dark matter and dark energy.

Even if there is some stretching of space , which may be small compared growth from injection. That is why red shift is indicating only a partial picture of expansion . As a result our calculations are going wrong. Another point is that the light travelling from distance object /candles may be travelling in a non isotropic field density of space medium which is not cosmology constant. Therefore our distance calculations may be wrong giving us a misinterpreted picture of dark matter and dark energy.

I published my push graviton emergent gravity theory sometime back to establish from calculation that fermion gravitons responsible for Newtonian gravity is having a mass of 750 proton mass and as such dark matter in itself.

I proposed to recheck Cavendish experiment and study long distance effects of gravity. Why the universe will collapse because of gravitational attraction when gravity is a push phenomena by fermion gravitons. Our whole understanding of

gravity and cosmology constant and the equation of Einstein seems to be relooked in the light of various theories published in VIXRA.ORG . If the fermion gravitons have 750 proton mass as per my calculation and in the great superfluid , it has a directional flow then fluidic push will rotate the planet and stars in great cosmic swirl and whirl. But on the surface of earth , gravitons are flowing like arrows towards center of earth to force the apple fall.

Our milky way and other galaxies rotate as a giant superfluidic disk , so that gravitons locate in a increased concentration away from center due to centrifugal force and we see Dr.Rubin is getting a rotational curve defying Newton law. We may revise Newton law as F=P.G.Mm/R.R .

Recent studies defying existence of dark energy and dark matter is only the outcome of wrong understanding from wrong concepts of gravity which I have clarified in my various papers published earlier.