

## CONFUSION IN MODERN PHYSICS.

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Abstract: The concept of mass in modern physics is an undefined concept . Einstein further complicated it with relativistic mass concept. Standard model prescribed a mechanism which is essential for importing a mass concept from Higgs mechanism with a tuned Higgs field and we claim to observe it in LHC but not sure the kind of Higgs Boson we are looking for. Theories even suggest that there should be total five God particles.

Discussion: Instead of mass , let us give a new name -entity which is neither wave nor particle but a wavicle in waves packet form of energy surrounded by a coupling field. All entities are in a state of existence acquiring potential energy from the prevailing field as well as its speed of propagation as running wavicles which we call kinetic energy and also from its energy due to matter content as a wavicle packet. As such we can revise Newton by adopting  $FORCE=ENTITY \times ACCELERATION$ . All entities as such an energy droplet due to its potential, kinetic , elastic etc and matter content with its own restlessness energy due to its wave-frequency and the FORCE applied on it is just doing work by  $FORCE \times DISTANCE$  and accumulated as kinetic energy progressively to appear as increase in velocity we call progressive acceleration. Concept of INERTIA is not a viable concept as we know every action has an opposite and equal reaction. An entity can not change its status by its own unless acted upon by an external force. Here comes the role of Higgs field for giving a resistance to elementary entities we call elementary particles to acquire a speed and position and existence . Other wise the quarks will not ensemble by a gluon force to further stabilize the entities to form atoms and molecules .

Our universe will be useless if Higgs field is not tuned to omnipresent as space foam where the entities can play in a swimming pond with appropriate speed instead of infinite and the gravitoetheron soup injected from the annihilation of matter and antimatter from the parallel antimatter universe on opposite entropy path and reverse arrow of time slowly forming into a black hole of very low entropy preparing for the next bounce , giving Dr. Guth an exponential inflation due to entropical disbalance and subsequent galaxy formation from escaped evaporation black holes from previous era as seeds of galaxy formation.

Therefore the bounce force intensity is the fundamental to give a tuned Higgs field and there after adjacent antimatter universe is producing gravitoetheron superfluid containing all dark matter and dark energy to bind the universe for existence of ENTITIES. I HAVE SAID FROM CALCULATION THAT FERMION GRAVITONS PRESENT IN GRAVITOETHERON SUPERFLUID IS HAVING 750 PROTON MASS TO GIVE EMERGENT GRAVITY DIRECTIONAL PUSH ON MOLECULES AND DARK MATTER IN ITSELF. ANOTHER COMPONENT IS BOSON GRAVITON HAVING NO MASS BUT STRONG COUPLING GIVING A BINDING FORCE TO QUARKS IN MY PROTON PULP ATOMIC MODEL AND DARK ENERGY IN ITSELF CAUSING EXPANSION OF THE UNIVERSE AS WELL AS THE MISMATCH OF 120 ORDERS IN QUANTUM VACUUM CONCEPT IS TAKEN CARE OF. The concept of Einstein in INERTIA OF MASS and confusion thereafter is unnecessary because in a perfect no field arena, there is no concept of mass or even inertia. These concepts come only from Higgs field but INERTIA is just opposing as we know from Newton that every action is possible if there is a possibility of equal opposite reaction. INERTIA is an emergent phenomena not to be confused with the ideas Einstein and unnecessary mixing with gravity. Because gravity is also an emergent phenomena due to fermion gravitons. Also the strong nuclear force is also emergent phenomena due to boson gravitons acting on quarks. So at the time of BIG BOUNCE, we can visualize that FORCE X DISTANCE created huge amount of energy in the form of quarks, Higgs field and further enriched by dark energy and dark matter for a fruitful recipe of our universe as narrated in my various theories.