

# The Concept of Antiparticle and Force of Gravity, We are Concentrated Mass and Our Antiparticle is a Diffused One

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**Abstract** \_The basic understanding involves the knowledge of antiparticle and vividly challenges the force of gravity as well. The topic requires a deep thought and a thorough understanding of Islamic concept of antimatter also. Scientists should know the facts and realities behind the topic. The basic thing is that scientists are facing difficulty in finding the origin of the force of gravity [natural/intrinsic force] and existence of antiparticle. The fundamental question is that if every matter has its antimatter then where is the antiparticle of human beings? Most of the physicists claim that humans are not particles ...but we say that we are matter too. This research states that antiparticle of every particle can balance it. Even there is an antiparticle of human being associated with him or inside him...but what is that??? Following research will help you answer such question! Based on findings, the researcher proposed that there is only one force in this universe and that is the force of gravity but is it really a force or its nothing or something which is just our perception. Then what is Newton's law of gravitation? Where it really holds? As a learning tool, we will have to open our minds once again. The researcher has suggested to, understand the Concept of Antiparticle spiritually. The result of this study implies that, knowledge of this particular topic can successfully be understood and can also be taught in modern science. It would really be helpful for further researches!

**Index Terms**\_\_ Diffused and Concentrated mass, Negative Matter, Concept of Antiparticle in Quran, Universal Law of Gravitation, Devil, Energy, and Pauli Exclusion Principle

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## 1-INTRODUCTION:-

**B**y now it is clear that consistent theories upon antiparticle can be constructed while taking atom under consideration. Today scientists are studying **antiparticles** just at atomic and subatomic level. But our conjecture gives another concept of antiparticle and for that it gives a basic criterion which you'll study in section [2.2/2.3]. Yes, certain criteria were studied in past theories to distinguish **antimatter** from **negative matter**. For Example, one such criterion was, negative matter is 'exotic matter' and has negative energy, and hence cancels out effect of ordinary matter, you'll read in section [2.2] but antiparticle has opposite and equal charge respectively.

In this paper we propose a new criterion which distinguishes antimatter and negative matter and hence we'll find a new concept of our existence on the planet Earth [The **Force of Gravity**], interestingly. This involves a simple observation clearly true in our own world that "**gravity is the weakest force**" then how we are right here **balanced** in this Universe? We promote this to the principle and in fact find that surprisingly this is the statement that there exists an **antiparticle of Human beings**. You'll read in section [2.3].

More precisely, the conjecture we make is that this is true for each and every particle or matter of this Universe.

**Now our theory appears to be more permissive than desired!** For instance, we measure acceleration due to gravity 'g' with the basic formula  $g = F/M$  or  $g = W/M$  or  $w = mg$  and Newton's Universal law of Gravitation gives the relation that  $F = G \frac{mm}{r^2}$ . We motivate this conjecture

from different viewpoints. In particular we show how this conjecture follows from the assumptions of law of gravitation.

This conjecture nicely extends the idea of antiparticle and gravity with a different criterion. We show why if our conjecture were not true then this theory that "**every particle in this universe has its antiparticle**" will be proved wrong. Our conjecture, if true, has number of consequences which you'll read in section [5].

Another aspect of our conjecture is that we take solid references and evidences from the Holy Book of Almighty that is well authentic **Quran**. This restriction that "**read only in scientific concept**" will have number of phenomenological consequences which will reinforce every scientist and a researcher to think spiritually.

The organization of this paper is as follows. In section 2 we present some loose conjectures which motivate us to study more precise conjecture discussed in section 3. In section 4 we present evidence of our conjecture drawn from our new theory of antimatter. We conclude with a discussion of certain additional points in section 5 respectively.

## 2. LOOSE CONJECTURES:-

Following points will let you know about classical and modern concepts of antiparticle.

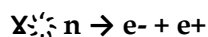
### 2.1 SCIENTISTS' VIEWPOINT OF ANTIMATTER:-

The concept of antiparticle is a very interesting topic of science. The scientists of 21<sup>st</sup> century are still working upon antiparticles. But discussing the latest discoveries it would be better to know the scientific definition of antiparticle which is valid till now;

**“A subatomic particle having the same mass as a given ordinary particle but opposite electric or magnetic properties and also differ in the signs of quantum number”.**

Every kind of **subatomic** particle has a corresponding antiparticle. For Example; the antiparticle of electron is anti electron so called positron which has same mass as that of electron but with equal and opposite charge.

Now the question arises that how antiparticle is produced? Is it natural? The scientists claim that it is produced naturally in certain type of radioactive decays. Also during pair production electron-positron pair is produced.



The reverse is also true that the antiparticle of positron is electron.

We should completely understand the fact that antiparticle is same as matter in every way, behaves the same except its particles have opposite electric charge to that of its ordinary matter. For Example; proton has its antiparticle antiproton which is just like proton but has equal and opposite charge [masses same].

From all of the above discussion, we conclude that scientists are considering antiparticles just with

subatomic particles such as quarks and anti quarks etc. Probably, they think that everything in this universe is made up of atoms and atom contains sub atomic particles and those subatomic particles have their antiparticles. So, as a whole we say that the body has its antimatter. But an interesting fact is that scientists claim that **there are some particles which are their own antiparticles**. For Instance; photons or the gamma –rays produced during the process of **annihilation** [complete destruction; the conversion of matter into energy, when a particle collides with its antiparticle it produces electromagnetic radiations]. When a positron comes closer to electron they annihilate or destroy each other and two **photons** are emitted. [One photon cannot emit because law of conservation of energy and momentum do not hold simultaneously as;



Also mesons, **bosons** [force carrier particles spin=0, 1, 2,... ] and hypothetical **gravitons** [particles which are the basic cause of gravity] are their own antiparticles. The reason is that they do not obey **Pauli Exclusion Principle** {the assertion that no two **fermions** [particle that has an odd half integer spin like 1/2, 3/4, 5/4....] can have the same quantum number} [only fermions do], hole theory does not work on them as scientists claim that those particles which obey Pauli Exclusion Principle have their corresponding antiparticles [explained by Dirac, Anderson and Hermann Wey in 1932 when they discovered antiparticles for the first time]. It means particle and anti particle cannot live together because whenever they meet annihilation occurs. But in the following sections we'll present a new idea of antiparticle!

## 2.2 DISTINGUISHING ANTIMATTER WITH NEGATIVE MATTER:-

We are discussing about antiparticles that have same mass but equal and opposite charge but in above section we have also discussed a bit about energy. Means antiparticle should have energy same as that of its ordinary particle but with opposite negative sign. Then we can say that antiparticle is a negative particle but this is wrong. We would have to distinguish between the two terms antimatter and negative matter.

**“Negative matter is exotic matter that has negative energy”.**

If you were to bring it into contact with ordinary matter you'll see, not awesome explosion, but an underwhelming and abrupt nothing. When negative matter is brought in contact with ordinary matter then the positive energy of matter and negative energy of negative matter, cancel out each other leaving nothing behind.

It means **negative matter does not exist!** But antimatter definitely exists. It can be created and stored. Antiparticles are created everywhere in Universe where high energy particle collision take place.

From here, we discuss about balancing or stability of this universe which most of the scientists think that we are stable here due to the force of gravity but no one really knows the origin of gravity. Scientists are still working upon the gravity that what basically it is and from where it comes from? But after getting familiar with

the above concept of antiparticle and negative particle can we say that

**“Universe is the mixture of half matter and half antimatter”!**

Or it consists of half positive and half negative matter; Energy... [that's another topic]. This is the reason that why we are still here on earth and how the universe is balanced.

## 2.3 HOW IS THIS UNIVERSE BALANCED?

We further elaborate this theory by mentioning once again this fact that every particle in this universe has its antiparticle and let us take example of electron that if electron has its antiparticle anti electron or positron and it can balance it. Similarly, antiparticle of proton that is antiproton, can also balance it and similarly every particle in this universe is balanced by its corresponding antiparticles then we can say that the whole world, the whole universe is balanced by its antiparticle. This is the reason that why we are here and why planets revolve around the sun. We'll discuss in upcoming section about gravity.

## 2.4 CONCEPT OF GRAVITY:-

What is Gravity?

**“Gravity is the force which attracts the two bodies towards each other”.**

Gravity is the force which causes apple to fall towards ground and planets to revolve around the sun. Also it is proved that the more massive the body, greater will be the gravitational pull.

**Elbert Einstein** proposed that gravity is that causes objects to deviate from travelling in a straight line. **Sir Isaac Newton** developed his own theory of gravity and proposed that gravity acts on all matters and it's a function of mass and distance. He gave his **Universal law of Gravitation** which states that

"Everybody in this universe attracts other body with a force that is directly proportional to the product of magnitude of masses and inversely proportional to the square of distance between their centers".

$$F = G \frac{Mm}{r^2}$$

It means that gravity depends upon mass. The forces of earth's gravity is a result of planet's mass and density  $[5.97237 \times 10^{24} \text{ kg}] \rightarrow [1.31668 \times 10^{25} \text{ lbs}]$  and  $5.514 \text{ g/cm}^3$ . This results in having a gravitational strength of  $9.8 \text{ ms}^{-2}$  which is the value of  $g$ . Now the fact is that no one could really discover gravity. Before Newton, **Galileo** fall objects from Tower of Pisa to notice the time and speed but Newton noticed a falling apple in his garden when once he was back from his university [fall of apple on his head is a myth].

The point is that if gravity depends on mass then how can a planet which is as same as size of mercury revolves around the star which is half of its size? Amazingly a counterexample! How can it provide the necessary **centripetal force** to that planet to orbit around it???? From here, this concept that gravity depends upon mass can be proved wrong.

Thus we conclude that there is some other reason neither mass nor gravitons.

Something else perhaps, **antiparticle**. Once again, balancing.

## 2.5 HUMANS DO HAVE THEIR ANTIPARTICLES:-

What about antiparticle of human beings. Actually antiparticle is the energy associated with us and with every particle in this world. The fact is that **we are the concentrated mass and our antiparticle is the diffused one that is energy**. That particle is associated with every human being in the form of **fire**. And that antiparticle is the **devil**, the Satan associated with everybody. That is just like us but behaves oppositely because that is our anti. Have you ever distracted? Have you ever done evils knowingly? What is that particular thing who forces you to do evils? Here is the answer that is your antiparticle!

Scientists are now researching on antiparticles but being a Muslim I've honor to mention this fact that our Holy Book, the last heavenly book of Almighty **THE QURAN** has proved it 1400 years ago.... When Satan refused to prostrate himself before Adam and he broke Almighty Allah's command, he requested that there should be Satan with every person [**The kid of Satan is a Satan**]. From that day antiparticle in the form of devil is associated with every human being.

## 3-EVIDENCE OF ANTIPARTICLE IN QURAN:-

Quran elaborates the concept of antiparticle in detail. Here are two of the

versus that clearly show the existence of antiparticle;

“And of everything we have created in **pairs**, so that you may remember”. [51:49]

“Glory be the one who created all in **pairs** of what the Earth grows and of themselves and of what they do not know”. [36:36]

#### 4-SHARPENING THE CLAIM:-

To find a sharper conjecture, we took evidences from Quran. Of course, scientists do have objections and there are such counterexamples to the conjecture. For instance Newton's law is hold all over the world but antiparticle is a very different topic.

It is natural to **generalize** our loose conjectures which are discussed in section 2. Now the generalization of conjecture is clear after understanding section 2 and 3.

#### 5-CONCLUSION AND CONSEQUENCES:-

The result of this study is parallel to other studies on **gravity** that have been reviewed but the result implied from the concept of **antiparticle** is totally different. Based on findings, researcher proposed that Antiparticle is a hidden energy that can be **controlled** by an ordinary human being in this universe and as far as gravity is concerned, researcher claims that gravity between the objects cannot be falsified but this fact that gravity is the function of mass should be taken under consideration.

Moreover, researcher says that antiparticle of every human is in his control. So **we can**

**convert evil into good by understanding our antiparticle!**

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