universe

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What is the shape of the universe that we live in?? And how the science finds that shape??

The national center for the distinguished

A research presented in English

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Introduction

"The universe" a big word that we heard it but... What the mining of it??? We knew that we live into it but... How it's look like?? A ball, a square , a tube ...

What things did it make off?? How did the scientist find its shape?? Who is the one who had the honor of find it?? We heard about the universal constant and universal equals but how we can describe anything by an equal ??

Also,

In the future can we find other people in other world???

We heard about other universes and copy of everybody in them.

But they are all made of atoms: protons, electrons, neutrons.

Maybe there are smaller things like atoms of atoms.

Or not, maybe strings, bower.

These questions are things that I ask myself about and I worked to find the reason and the explanation and I put it into this research.

The history of the universe

For a long time, the main dream of people was to find another world with other people or even describe the world that we live in.

The old scientist –in their time- didn't have equipment that is good enough for study the stars, butwhy the stars???

Actually, there is a connection between the speed of the light and the distance.

So, by using this connection they could take the speed of the light and take the time of the operation and in the end they find the distance between the stars.

But by inventing the telescope, everything changed, they started to give every star name and they found the distance.

And they stay on this way, even they though that planets and the sun were rounding around the earth.

UNTIL, the old Arabian scientists, they said "NO" the sun is the center of planets cycles.

And in the end, we found that their talking was right.

Then, they continued in their opinion until the father of the physics "newton".

And he changed all the notion of the world.

Newton's apple

In the 17th century newton was thinking under tree and an apple fell on his head, and he thought about reason, and in the end he discovered the general gravity and the world changed.

And hundreds of theories born,, but why the gravity???

Actually, the gravity helps us to find the distance between the planets and the stars because each planet has gravity and they effect on each other.

And we stay using it until now. In our questions and a lot of things in the life.

But can you imagine that it's wrong????? In fact, yes.

Newton was the one who changed the world for 100 year then a big scientist became from Germany and his name is:

Einstein



The honor of Einstein



14 March 1879 in south Germany,

Einstein came. And he finished his study in 1900 in a Swiss university and started researching.

He said "NO" newton was wrong .and he spent his life trying to find other theory.

Then he found the relativity theory and changed the entire world because it says that there is no gravity in the planets but there is a space-time like the shroud and the planets on it.

So, the notion of the universe changed.

The heavy body is in the center and the things are around it. So, things become close to the center.

Question: according to relativity the earth well become closer to the sun and crash it, but this won't happen, way????

In fact ,when anything go round like cycle there are two forces which are : traction , exclusion by the cycle and when the exclusion is more than traction the thing well go away and when the traction is more the thing well come closer in spiral course . He continued study the universe and he discovered a lot of things.

He described the universe and made equals for it.

But when he was working on an equals, he found a constant number in every equal.

And after a lot of study he discovered that this number describe the stretching.

So, the universe is stretched and it well continues doing this.

But Einstein didn't believe, and he canceled the equal that have this constant, "because he made an equal for it".

And after he died, the scientist discovered that his taking was right.

YES, the universe stretch now, and it well reach to a point and well shrink

Now we call this constant the universal constant.

But the first thing that we should take about is the time, we all knew that we can describe the space by lines but Einstein is the only human being that could image the time with line.

So he added information to the world which is:

We can describe something in physics in four things:

1-Length 2-breadth 3-height 4-time

The shape of the universe

How can we describe something? Actually, there are a lot of ways to describe thing like box (for example):

- 1.You can say that there is a thing on the table, has corners, margins, six squares.
- 2.You say the main point is the corner of the table and you give me some points X(3,6)y(3,3)-Z(6,3)-F(6,6) { look at shape 1 }



And the same thing for shaft X and shaft Z

And also for shaft Y, and shaft Z.

3. Or simply you can say: "there is a box on the table :) "

And we call the second one analytic geometry description.

And we use it in all math and physics.

Main parts

-What things did the universe make of?

There are:

Planets, stars, central stars, black holes, spiral holes, universal sandy storm, space, dark energy.

Planet: a ball that takes the energy from stars and reverses it without give a special energy.

Stars: a rock, it was parts from planet in the past then it separated and give light.

Central stars: like the sun, huge stars that they are made of gases and almost planets curls around it and it give them the warm and light.

"Do you know that the sun is made of 80% helium"

Black holes: black cycle in the free universe and everything near it well be sucked.

How it made: Planets dyes and collects itself in small place, so it makes a big gravity and sucks everything and prisons it forever.

Spiral holes: it is the same with black holes but it doesn't prison something, it changes its course.

Universal sandy storm: when stars crash each other they became smaller then after a long time they become like sand, and we all know there is

¹ Science book in 9th grade

no gravity out so they swim and curl there and look like storm.

Space: 80 % of our universe is making from space "no planet, no stars, no live, nothing".

And the scientist could not know anything about it but only imagination.

Dark energy: all the things move by energy in our world but out there is energy between the atoms make things unmovable so we call it dark energy.

These things together make the universe and they affect each other by gravity, mass, shape.....

But there are a billion from stars and suns.....

And they gather in galaxies.



Milky Way [astr.]

The main shape

All scientists around the world want to find its shape.

So, Einstein said that the universe is stretching

And newton said that orbs affect each other

And new scientists try to find it but "NO"

But in the middle of the last century there is someone called Friedman made a long equals collect all things that Einstein and newton take about he called it the universal equal.

And it described the universe, but there was an indiscernible number describe the crook of the universe and it takes any number between $\{-\infty, +\infty\}$

- So, if it is in {-∞,0{ "under 0", the universe well be like tube in shape of cycle (like Donat)
- II. If it is 0, the universe well be surface.
- III. If it is in} 0, +∞}"above 0", the universe well be like the ball.

But not a normal ball because it has dark into.

But this shape isn't 100% truth because every day there is a new discover.

And maybe there'll come one day and a Syrian scientist find it and give Syria the honor that it deserve.

The new theories

Parallel universes

What are things that the atom consists from??

- Proton
- Neutron
- Electron

Protons and neutrons are in the center and electrons curl around the center but actually we can't say the electron is in this point in that time (we can't pinpoint its location and time) because it is very fast

"Faster than light and we all know that it is the fastest thing in the world "

Can you imagine that this electron could be in two places in one time!!!!!!!!!

So, scientists said that this electron leaved the atom between these places and moved in fast of light.

But in the fast of the light nothing can be in its shape so it moves out our universe and in the end it gets back to the other point.

But on its course every point it passed, it well remake the same atom but not 100% the same.

Imagine that is happen to all atoms, we well have other universes but with small or big difference. So there are other universes that have the same people and same things.

But everything possible to happen has a universe:

For example, there is a possibility to me to be dead, so there is other universe with all things that we have but "unfortunately "without Ibrahim©.

But there are billions of billions from parallel universes so they call it the multi universe.



If we assume that the universe is a ball.

Super string

When the scientists made the parallel universes or (PU) theory they were looked for "one theory of everything" and it must explicate all things that happen but (PU) couldn't explicate an important thing and which is the born of the universe (big bang).

- {BB} or big bang: the universe was a point in the past, this point was very heavy and hot then it exploded and gave our universe-

So, they kept searching about a new theory then they found the super string theory.

What are the things that the atom made of??

Let's remember the proton.

It is made of smaller things that we call it strings, like guitar as each string has a lot of tones the atom has also a lot of energy so the world become like symphony with a lot of tones and it could describe a lot of things and the {BB} also.

The heavy point had a lot of energy and when it exploded it sprayed into the space and made the universe.

This theory become more to the imagination

But it maybe truth, who did know???

Conclusion

In my little research I tried to answer questions that I think it need to answer and I wish to be a good answers and according to the shape of the universe the scientists reach to amount near + I when they tried to solve Friedman equal.

So the shape of the universe is like the ball and the new theory maybe truth.

And I would thank my English teachers lam mjbor and Ms.wafaa and Ms.Heba and Ms. Shaza.

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