

# Torus Mechanics -1

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*Dedicated To*

*Rudro, Tusho And Samara*

*(Now it's time to dedicate my brother's and sisters !!)*

**Abstract:** First, I explain the meaning of headline. The term "Torus" came from the book "The Shape of Space" written by Jeffrey R. Weeks. Torus is a n-dimensional Glued Surface. And the term relativity we all are familiar with this basically when we talk Einstein Relativity. So, this paper on Rusho's general Torus relativity emphasizes the relative occurrence and relative answers of every physical phenomenon. Like for BIG world or professionally MACROSCOPIC WORLD Newtons Mechanics is replaced by Lagrangian mechanics and Lagrangian mechanics is replaced by Hamiltonian mechanics. Again this rules also break down and came Einstein theory of relativity, Quantum mechanics for microscopic world. This is also a mechanics or we can call it let's say "Torus Mechanics". So what is its speciality. We will represent here 3 observations. We will do here some critical thinking also. In first observation, we will evaluate the torus nature of light and shape of space i.e. the space is closed and expanding or open and expanding. And in our second observation, we will prove Newton's famous Third law i.e. Every action has an equal and opposite reaction. And our third observation we will evaluate and prove another famous concept The conservation law in physics !! So let's begin.

**Keywords:** Torus, n-Dimensional Glued Surface, Gaussian Surface, The Shape Of Space, Torus-Tic-Tacoe, Torus World, Torus Light, Closed Universe

## Introduction:

### 1'st observation:

Torus nature of light and shape of space => Have you ever played tic-tac-toe in the classroom. I know most of the answer is yes. But now if I tell you have you ever played torus tic-tac-toe.

Now you can tell me what the hell it is !!! Now it is not the paper defining clearly torus but its application or mechanics. If you want to find its clear description or play this game (I recommend this, then go to this link to play its free ! link : <https://www.geometrygames.org/TorusGames/>) . if you play with this game I think you will feel the mathematics behind it. Now, let's explain this with physics background. We all know what Gaussian Surface is in "Electromagnetism". In Gaussian surface We hypothetically imagine an imaginary surface. Then we use some laws or formula to find the electric field and we get the answer also. But Gaussian surface always is in our imagination not in visual world. Similarly "Torus" is also a hypothetical concept. We use it to identify new laws or prove old laws. Then the formal definition of torus is:

[In Mathematics, a torus is a doughnut-shaped object such as an Oring. It is a surface of an object formed by revolving a [circle](#) in three-dimensional space about an axis that lies in the same plane as the circle. If the axis of revolution does not touch the circle, the surface forms a ring shape known as ring torus or simply torus if the ring shape is implicit. As the distance from the axis of revolution minimizes, then the ring torus transforms into a horn torus.

Real -World objects that approximately look like

a torus shape are swim rings or inner tubes. Eyeglass lenses that combine cylindrical or spherical corrections are defined as toric lenses.]  
Src: <https://www.vedantu.com/maths/torus>

So What is Torus nature of Light and how can it be useful to find the shape of space???

Ok reddy for brain-storming. Suppose you are in a dark room (totally dark). But the room is special one or exception it has one side of wall and other side has no wall or no reflector it is infinity and there is a light source in the wall and the observer suppose you are in the right angle with the source. You turn the switch on then what happened can you see the source of light. Well, the answer is no!! Why because from the basic properties of light we know that if light hits to a reflector and come to our brain, we can detect the source. but since the other side is infinity or no reflector then the light can't reflect. And sad is you will never know there is a source of light and switch is turn on. here switch turn on or off will not play a role at all!!! Isn't interesting!! It is like Einstein's lift experiment. Ok so what is the relation between Torus light and shape of universe with it. Ok let's assume another thought experiment. Some how we can see the light is emitting from the source. So, what we will see now if you wait for infinity time. You will see the source is emitting light and light is going in straight line, going and going, going and going ----- . No end point but has its start point. Ok wait. Now think that this is a finite circular torus room. means it is a closed space. What will happen then. You will see same thing . because in torus property you know when the light is going from 1 point to another side it will come back its opposite point and will follow continuously the trend for infinity time. No experiment can be

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found to differ two things the

Each experiment will give the same result . But the experimental place is fully different . In first experiment , There is an Infinite area but second case there is finite one . Are you amazed !! If not you are not human !! The nature of light is called Torus light . Now , Apply this in universe . Thought All the planets, nebula, asteroids are gone . Only Our favourite sun is present And reflecting light with efficiency 100% iff you see this experiment you will see that light is going, going, going and so on. What will you explain the shape of space . Is it Infinity long expanding sheet space or it is finite closed expanding torus space . What do you think . What will be the answer > We can also apply it in many things . let's think about black holes . If anyone enters in black hole what will happen . if the space is torus. then the person will go there from where it starts . Let's use this technique in more places.

#### **Observation:2**

#### **Apply Torus Mechanics to prove Newtonian mechanics Third law**

We know Newton's famous law " Every action has an opposite and equal reaction." . Let's find it with Torus mechanics. Now imagine a sweet thought you are in a well beautiful lighted room . You are practicing Boxing

. You are going to punch it . When you punch the shield of boxing, you will feel an opposite and equal reaction . Now explain it with Torus mechanics . We heard gaussian surface in electromagnetism and lenz law . When magnets come to the electric circuit current start flowing . Same thing happen , theirs also create an Circular Torus hole . When you punch the box ., To resist it their creates a circular torus hole . You gave it back your same force punch and feel it's weight!!!! But why it,s happen , we don't know . Maybe Allah knows it .

You can prove third observation from second.

#### **Conclusion**

In this paper I have showed how torus mechanics can help us to generalize our world 's equation with a new formate.

But it was a Concept paper . The main paper with equation -formula's will be published upcoming volumes . Thanks Toreader . God bless you

#### **Reference**

1. Book of The shape of space written by Jeffrey R.Weeks
2. <https://en.wikipedia.org/wiki/Torus>
3. <https://www.vedantu.com/maths/torus>