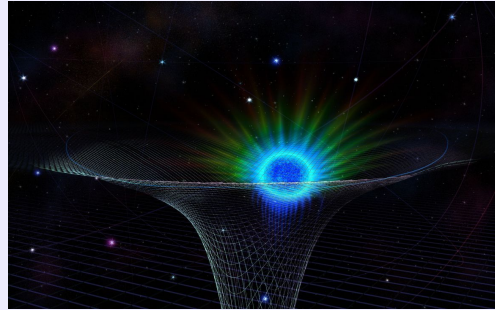


## Definition

- This theory deals with the space-time continuum, stating that if the body is at rest surrounded by the gravitational field and keeps accelerating are both the same physically.
- The general theory of relativity was developed by **Albert Einstein**. It is a theory that defines the gravitational effect on masses coming out of the warping of spacetime.
- **Formula:  $E = mc^2$**

## Illustration



## Example

You can see the cork falling in the rocket, same as that of the fall on the earth, given that the acceleration of the rocket is **9.8 m/s<sup>2</sup>** due to the gravity on earth.

## Postulate

- Local physics is governed by this theory.
- The principle of equivalence - there is no way to spot the difference between gravity and acceleration.