

### Answer on Question #72066-Physics-Mechanics-Relativity

I think we are moving with speed more than that of light, So why our time is not stopped or it is stopped we don't even realize? (According to theory of Relativity of Time) or Real Cosmic Time is even faster than we think?

Reason: Our planet is revolving around sun at the speed of 108,000 km/h & simultaneously our sun is moving in the galaxy at the speed of 720,000 km/h even Milky way is moving in the Cluster (I don't know the speed). Our Local Cluster is moving at a very high speed. Our Laniakea Supercluster is moving across space & So on...

So Accordingly, Our Speed = 108,000 km/h + 720,000 km/h + Speed of our Galaxy + Speed of our Cluster + Speed of our Super Cluster & So on...

### Answer

Your mistake is using simple addition of velocities instead of the rule of adding velocities in special relativity theory:

$$u = \frac{v + u'}{1 + \frac{vu'}{c^2}}$$

Where  $u$  is the velocity vector of object relative to inertial frame A,  $u'$  is the velocity vector of object relative to inertial frame B,  $v$  is the velocity of B relative to A. In such manner you cannot obtain "speed more than that of light". The maximum speed is  $c$  (speed of light).

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