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# AMAY'S DIMENSIONAL THEORY FOR LIGHT

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## INTRODUCTION

AMAY'S DIMENSIONAL THEORY OF LIGHT is about the very intrinsic behaviour of light. It explains one of the most hidden property of light or electromagnetic radiations. It says light actually travels in high dimensional space and we get its projection in our dimension as light.

It also explains how the electromagnetic force works and what is its origin.

It is the foundation for the PTOE, an approach to unify quantum mechanics with relativity or the Theory of Everything. I will submit the PTOE after the approval of this.

## PROOF FOR LIGHT TRAVELS IN HIGHER DIMENSION

According to Fermat's Principle of Least time, light always takes the quickest path not the shortest path. That's very abnormal behaviour of light, because for three dimensional space everything choose to move in a linear path until and unless there is the external force or are the curvature in spacetime. That's very obvious thing, light does not have consciousness. So, how the light can take the quickest path instead of shortest path. That's very abnormal for three dimensional space.

According to general theory of relativity, space time is the fusion of three dimensions of space and one dimension of time. So, here the time is 4<sup>th</sup> Dimension. In four dimensional space, if we choose two coordinates of time and join then linearly, then that will be the smallest magnitude of time. And hence, that will be the quickest path or it will take the least time to cover that distance in three dimensional space.

The same can be applicable for light. As it take the quickest path or the least time to reach at specific co-ordinate. That means the light travels in four dimensional space. And we observe its projection in three dimensions.

Or in other words, every electromagnetic radiation travels in four dimensional space and whatever we observe as electromagnetic radiation in three dimensional space is its projection. Hence, the 4 dimensional space is very stable for electromagnetic radiations.

So, if the photon (force carrier particle of electromagnetism) is of four dimensional space, that means electromagnetic force itself, interact by the 4 dimensional space. As the light is the disturbance in electric field and magnetic field, that means electric field and the magnetic field are the property of four dimensional space.

As the mass and energy distorts the space time curvature, in same way the charge distorts the four dimensional space. And hence, we experience the electromagnetic force. So electromagnetism is also the behaviour of 4 dimensional space curvature. It is not a force.

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