Research Paper Physics

An Approach to Understand the Physics of Conservations

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ABSTRACT

The laws of conservations of physics play a very big role in nature. Here, an attempt is made to understand the physics of conservations by a semi-optical model. This approach may enlighten in respect of some physical affairs in nature at the base.

Keywords : Conservation, State, Zero, Semi-optical model.

INTRODUCTION :-

The laws of conservations of physics (towards mass, energy, massenergy, linear or angular momentum etc.) play a very big role not only in our laboratories and workshops, but also in the biggest laboratory and workshop of nature, i.e. the universe. This paper is in continuation to my earlier paper in regard to the physics of conversions (PARIPEX – IJR, February 2013). An attempt is made herein to understand the physics of conversions by a semi-optical model.

DISCUSSION :-

In classical physics, physical state of a system is the complete description of the system in terms of different physical parameters. In the physics of dynamical systems, state is a mathematical concept where a definite rule describes the time dependence of a point in space. In thermodynamics, state is a set of physical quantities describing the variable properties of the given thermodynamic system under consideration. In quantum physics, state of a quantum mechanical system is given by a vector in Hilbert space. [1]

The mathematical digit zero can describe the mathematical state of neutrality or emptiness. Again, a neutral or empty state may be considered as the algebraic combination of two similar states of opposite algebraic nature.

Let us now consider a physical incident or event where some law of conservation is related, e.g. a physical change, a fission or a collision etc. Let us make an attempt to understand the physics of the incident with reference to physical conditions and physical space. The relevant law of conservation may be viewed mathematically as : (physics of initial state) + (- physics of final state) = 0, alike the same concept as described in the foregoing paragraph.

CONCLUSION :-

Let us now try to formulate the semi-optical model of the concerned physics of conservation. We can consider the physics of the initial state as the object, the physics of the final state as the image and the physical conditions of the occurrence of the incident as the optical system. Here, the dimensions of physical space play the roles of rays in respect of the object and the image. Images of different types and sizes reveal the physics of the final state and probably also the future of the physical incident. This approach may even enlighten in respect of mass density and energy affairs in nature at the very basic level.

REFERENCES

[1] Link : State – Wikipedia, the free encyclopedia.