

Theory of Relativity, Time and Truth

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Abstract—Theory of Relativity has a great impact on every aspect of technical results as well as human life. In this paper, this relation is invented in a new way. We are not able to reach the True value to a measurement or attribute, whatever precautions and conditions are prevailed. Therefore, all results or values are obtained on comparison basis and it may tend or nearer to real or true value only.

Index Terms—Theory of Relativity, Time, Truth, Decision.

I. INTRODUCTION

Theory of relativity is invented by famous scientist Albert Einstein to envisage a new direction in the physical world. First he had published Special Relativity 1905 A.D. in paper "On the Electrodynamics of Moving Bodies" and finally brought General Relativity in 1916 A.D. [1]-[5]. Special Relativity deals with elementary particles, and their interactions like motion, dimensions etc., especially when speed or motion is uniform in nature. It is widely used in the field of atomic physics, nuclear physics and quantum physics etc. from 1920 A.D. onwards. General Relativity is designed for non uniform motion, i.e., when the bodies are subjected to accelerating or retarding motion and is applied in cosmological and astronomical field like heavenly bodies, satellites, space research, gravitational force changing etc. It is appeared that minor corrections can be made to Newtonian gravitation theory, but after 1930 A.D. General Relativity is predominant in the field of space research and satellite communications.

The main theme with mathematics of relativity theory was quite a complex one and in the first stage, only few scientists could understand this. When Einstein was going to deliberate and explain Relativity theory, most of the scientists were not understood it clearly and they were also uncertain in which field this theory could be applied. The great scientist Einstein indicates the very reason of Relativity Theory. He tells that whatever things we are doing, that is time and space dependent, since everything is changing in this world as well as universe. Einstein had shown the variation in speed of light at the time of solar eclipse, it is happening due to change of earth's gravitation at the time of solar eclipse and light is composed by quantum of energy particles, called photon as per Max Planck's invention. Planck stated that Energy of

light (E) is obtained in quanta multiplying by a constant (h) with the frequency of emitting light (f), so, $E = hf$, this constant h is called Planck's constant.

II. METHODOLOGY OF THE STUDY

In accordance with Relativity theory, we are not getting absolute or true value to a measuring parameter or attribute, since this earth is also a moving object and changing its motion, gravitation, composition and so on. Therefore, we never get the real value measuring from the earth and also in the universe or space, since universe or space is not a static one, everything is dynamic, i.e., changeable [1]-[5]. In 1975 A.D. the speed of light is known to be 299,792,458 m/s with a relative measurement uncertainty of 4 parts per billion, so the speed of light, which is generally taken as 3×10^8 m/s, is not a constant value, precision value has to consider. There is no absolute vacuum medium. Ether, although, is considered as vacuum medium, but practically it is not like so. Ether medium consists of very few minute particles like atoms which takes part in electromagnetic wave and light propagation. Therefore, whatever result or measured value at space in ether medium we are getting, that is, also not the absolute or truth value at all. In all these cases, the measured value or result is obtained after comparison with another object or thing only, whose values of the parameters are going on changing process with respect to time. Ultimately the result for measuring a parameter of a thing or an instrument is not remaining constant and it is varying time to time. The variation of results may be very small or very hard to accept, also this variation of results is changing in time variance non-linearly or linearly, but obviously it happens in all practical situations and no result is reaching to absolute real or true value. In most of the cases, we can not exactly determine the real or true value for a measured parameter or attribute. Therefore, we are lying in relative world only.

III. THEORY OF RELATIVITY REACTS WITH TIME AND TRUTH

Time is the most important parameter in all sorts of things. According to Einstein, time should be represented by fourth dimension of a thing; the other three dimensions may be length, breadth and height or any other things. Therefore, measured value (result) for a parameter or attribute is meaningless, unless correct time at measuring instant is mentioned. Guessing all types of things, characteristics of parameters etc., Timing characteristics represent a great criterion to have the past, present and future happenings on that thing. Without time-space continuum, no meaning is assigned. For proper management, in any kind of activities,

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decision etc., timing is adored to highest priority [5].

In human life and physical world including universe, “True” value is regarded as “God” or vice versa, i.e., reaching absolute or true value (may remain constant) for a particular thing or parameter. This true value for a thing or parameter is not changing with respect to time-space variation. At the same time human identification, environmental condition like temperature, humidity, composition etc. and measurement instrument are always in evergreen changing process. Thus human is unable to reach ultimate “Truth”. In this respect, man is not getting such an environment to reach ultimate absolute true value for a parameter or thing, called as “Absolute Truth”. Whatever measurement we are doing, that is based on comparison with the other things or happenings or conditions which are not belonging at all to the absolute truth class, i.e., constant value for all circumstances. As a result we are unable to take decision how much our measuring value is perfect, e.g., when we are measuring length of an object, the measured value is not able to reach to “True” or “Absolute accurate value”. Also it is predominantly accepted that our management decision is always on comparison basis and not absolute perfect one, but our motivation is to tend it correctness, best suitable to all other practical situations.

If we can really reach to “True” value, that will not change under any circumstances and remain constant forever for that particular thing or parameter. At that time we can omit to consider fourth dimension “Time”, because when absolute Truth is reached, Time is meaningless. Since it appears to us that our good times are passing very quickly and bad times are passing very slowly, why it is feeling like so? It is because of that we are having good and bad feeling, i.e., our mind and body having physical sensitivity. If we can get rid of this good and bad feelings, i.e., so called “Tends (Close) to Truth (God)” stage, that time we are having no timing stage, hence all times are equally testable or prolongable, either good or bad. It is practically seen that reaching to absolute Truth stage is almost impossible, only “Tends to Truth stage” may be achieved. Perhaps it is the difference among absolute truth (God) with human and biological body activity. Absolute truth is perfect one and time independent, where as human-biological-universe workings are always changing in nature and time dependent.

IV. CONCLUSION

Definition of True value is not yet clear to us. Since we have not met with true value, how can we guess it? Besides this, hardly we can identify range of true value for a thing or parameter. It may not be correct one also. However, practically we have to remain happy with the value or result coming or available from this surroundings keeping in consideration of the Relativity theory. So whatever value or result we are getting, that is relative value only and always time dependent. Our ultimate searching with vigor is to reach “True value” which is completely time independent, but it is not obtainable. Therefore, Truth value is the perfect one and our measured value or decision is finding the truthiness, i.e., degree of perfection.

REFERENCES

- [1] Einstein A. (1916 (translation 1920)), Relativity: The Special and General Theory, New York: H. Holt and Company.
- [2] Miller, Arthur I. (1981), Albert Einstein's special theory of relativity. Emergence (1905) and early interpretation (1905–1911), Reading: Addison–Wesley, ISBN 0-201-04679-2
- [3] Will, Clifford M (August 1, 2010). "Space-Time Continuum". Grolier Multimedia Encyclopedia.
<http://gme.grolier.com/article?assetid=0272730-0>. Retrieved 2010-08-01.
- [4] P. K. Bhattacharjee, “Fourth Dimension Time in Co-ordinate System” International Conference on Recent Trends of Mathematics in Engineering and Management, BITM, Santiniketan, India, pp 29-31, Mar 2009.



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