

Validation Of The Equivalence Of Information Flow And Energy

Friedhelm M. Jöge *

Abstract

In this article, the validation of the Equivalence of Information flow and Energy is provided step by step. First, the validation of the Equivalence of Information flow and Time [1] is carried out and then the validation of Equivalence of Energy and Time [2] is carried out. The validation of the Equivalence of Information flow and Energy then results automatically. In this way, the validation of Information flow and Time and the validation of Energy and Time are carried out at the same time.

Keywords: *Information flow, Energy, Validation, indirect confirmation, age of the universe, dark energy*

Date of Submission: 12-11-2023

Date of Acceptance: 22-11-2023

I. Introduction

The Equivalence of Information flow and Energy has been theoretically thought through, matematically formulated and published [3], [4]. What is still missing is direct experimental verification, which has not yet been carried out. Therefore, in this article the verification of this equivalence will be carried out step by step and indirectly.

II. Validation

The validation of the Equivalence of Energy and Time results from the direct proportionality of Energy and Time. This can be seen from the proportional increase in dark energy with the age (time) of the universe. The higher energy consumption as time progresses is an example of this. This can be seen in the energy consumption bill. The same applies in the Equivalence of Information flow and Time. The more time is available, the more information can be transmitted.

III. Conclusion

This provides the validation for the Equivalence of Information flow and Energy. At the same time, the validity of the Equivalence of Energy and Time and the validity of the Equivalence of Information flow and Time are also proven.

References

- [1] JÖGE F.M.: Equivalence Of Information Flow And Time. OSP Journal Of Physics And Astronomy October 30, 2022
- [2] JÖGE F.M.:Equivalence Of Energy And Time. International Journal Of Physics And Astronomy June 2022, Vol.10, No.1, Pp.1-2
- [3] JÖGE F.M.: Information & Effect: An Introduction To The Concept Of Immanence As A Physical Quantity. Scientific GOD Journal, December 2018, Volume 9, Issue 8, Pp.598-613
- [4] PAGEL L.: Information Is Energy. Definition Of A Physically Based Concept Of Information Springer Vieweg Wiesbaden 21.Juni 2023