International Journal of Physics and Astronomy December 2020, Vol. 8, No. 2, pp. 1-2 ISSN: 2372-4811 (Print), 2372-482X (Online) Copyright © The Author(s). All Rights Reserved. Published by American Research Institute for Policy Development DOI: 10.15640/ijpa.v8n2a1 URL: https://doi.org/10.15640/ijpa.v8n2a1

Equivalence of Information and Immanence

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Abstract: An equation to describe the equivalence of information and immanence is developed.

Keywords: information, immanence, entropy.

The article "Information & Effect", published in December 2018 in Scientific GOD Journal, Volume 9, Issue 8, pp. 16-31 describes the equivalence of Information and Effect: $A = h \cdot ln2 \cdot H$ (equation 3, page 28). It is based on De Broglie's formula A/h = S/k.

Transforming the formula Q = kT results in $Qt = kTt \rightarrow A = kI$. Equation (3) gives the equivalence of information and immanence:

 $\mathbf{I} = (\mathbf{h}/\mathbf{k}) \cdot \ln 2 \cdot \mathbf{H} \tag{a}$

This equation enables information from the universe to be calculated from the drop in the hyperbolic temperature curve. This describes an application of equation (a) and in addition to the principle of immanence development a meaningful application of the concept of immanence.

Meaning of the symbols used

A = Action (effect) H = Shannon's information entropy I = Immanence = $T \cdot t$ Q = thermal energy Qt = thermodynamic effect S = thermodynamic entropy t = time

h = Planck's constant k = Botzmann's constant

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References

Jöge, F.M.: Information & Effect: An introduction to the concept of Immanence as a physical quantity Scienrific GOD Journal, December 2018, Volume 9, Issue 8, pp. 598-613