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Original Article



Equivalence of Energy and Time

Friedhelm M. Jöge*

Corresponding Author: Friedhelm M. Jöge

Abstract: A formula is developed that shows the equivalence of energy and time.

Keywords: Energy, time, PLANCK time, PLANCK quantum of action

Derivation of a formula that describes the equivalence of energy and time

In the International Journal of Physics and Astronomy, June 2019, Vol.7, No.1, pp1-7 [1] a formula for calculation dark energy was developed under the title "Calculation of Dark Energy and Dark Matter". It is:

$$Ed = h tu / tp^2$$

Tis formula is now expanded below to

$$E = (h/tp^2) \cdot t$$

Starting from

$$E = h/t$$

Is obtained by substituting tp for t

$$Ep = h/tp$$

For the energy in the PLANCK time

For the energy per one second we get:

$$E1 = h/tp^2$$

And for energy in time t

$$E = (h/tp^2) \cdot t$$

This is the general formula for the equivalence of energy and time.

If you use the age of the universe for the time t, you get the amount of dark energy.

Definition of symbols used in formulas

E = energy

Ed = dark energy

t = time

tu = age of the universe

tp = PLANCK time

h = PLANCK quantum action

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^{*}Schulstrasse 57, D-31812 Bad Pyrmont, Germany, E-Mail: f.joege@web.de