

Refutation of six weak reactions in nucleosynthesis

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From:

Grohs, E.; et al. (2018). "Universes without the weak force: astrophysical processes with stable neutrons". arxiv.org/pdf/1801.06081.pdf

Using the Meth/VL4 apparatus and method, we evaluate

$$v_e + n \leftrightarrow p + e^-; \quad (2)$$

$$e^+ + n \leftrightarrow p + \bar{\nu}_e; \quad (3)$$

$$n \leftrightarrow p + e^- + \bar{\nu}_e; \quad (4)$$

... as the $n \leftrightarrow p$ rates."

LET p q r s: p, n, v_e , e^+ ; ~ Not, bar; + Or; = Equivalent, \leftrightarrow .

T is the designated *proof* value. Truth tables of 16-values are row-major, horizontal.

$$(r+q) = (p+\sim s) ; \quad \text{FFFT TTTT TFFT FTFT} \quad (2.2)$$

$$(s+q) = (p+\sim r) ; \quad \text{FFFT TFFT TTTT FTFT} \quad (3.2)$$

$$q = (p+(\sim s+\sim r)) ; \quad \text{FFFT FFFT FFFT TFFT} \quad (4.2)$$

$$(((r+q)=(p+\sim s)) + ((s+q)=(p+\sim r))) + (q=(p+(\sim s+\sim r))) ; \quad \text{FFFT TTTT TTTT TTFT} \quad (5.2) = ((2.2)+(3.2))+(4.2)$$

Eqs. 2.2, 3.2, 4.2, and 5.2 as rendered are *not* tautologous. This means the six weak reactions in nucleosynthesis are suspicious.