

Mathematical Proof of Scientific GOD

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ABSTRACT

This poem proves/expresses mathematically the omnipresence, omniscience, omnipotence & omniscience of Scientific GOD.

Key Words: Scientific GOD, mathematical proof, omnipresence, omniscience, omnipotence, omniscience.

Oh GOD, you seem invisible to naked eyes, untouchable by hands,
Yet you are mathematically omnipresent, omniscient:

“*e*” is your body, ether, the foundation of existence;
“*i*” is imagination, a faculty of your mind, the source of creativity;
“0” is initial state of your mind; emptiness, nothingness;
“ $1=e^{i0}$ ” is your primal state, oneness, unity of existence;

Oh GOD, you seem silent in voice, absent in physical action,
Yet you are mathematically omnipotent, omni-active:

“+ , - , * , / , =” are your operations of existence;
“*c* , \hbar , π ” are your measuring units of existence;
“*matrix*” is your container for governing rules, external/internal world;

Thus,

You make the identity revealed to Euler to hold as follows:

$$e^{i\pi} + 1 = 0$$

You make primordial distinction to occur as follows:

$$1=e^{i0}=e^{i0}e^{i0}=e^{iL-iL}e^{iM-iM}=e^{iL}e^{iM}e^{-iL}e^{-iM}=e^{-iL}e^{-iM}/e^{-iL}e^{-iM}=e^{iL}e^{iM}/e^{iL}e^{iM}...$$

You create energy-momentum-mass relationship revealed to Einstein as follows:

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$$1 = e^{i0} = e^{-iL+iL} = L_e L_i^{-1} = (\cos L - i \sin L)(\cos L + i \sin L) =$$

$$\left(\frac{m}{E} - i \frac{|\mathbf{p}|}{E}\right) \left(\frac{m}{E} + i \frac{|\mathbf{p}|}{E}\right) = \left(\frac{m - i|\mathbf{p}|}{E}\right) \left(\frac{m + i|\mathbf{p}|}{E}\right) = \left(\frac{m^2 + \mathbf{p}^2}{E^2}\right) \rightarrow$$

$$E^2 = m^2 + \mathbf{p}^2$$

You create, sustain & make evolving an elementary particle as follows:

$$1 = e^{i0} = e^{i0} e^{i0} = e^{-iL+iL} e^{-iM+iM} = L_e L_i^{-1} (e^{-iM}) (e^{-iM})^{-1} \rightarrow$$

$$\begin{pmatrix} L_{M,e} & L_{M,i} \end{pmatrix} \begin{pmatrix} A_e e^{-iM} \\ A_i e^{-iM} \end{pmatrix} = L_M \begin{pmatrix} A_e \\ A_i \end{pmatrix} e^{-iM} = L_M \begin{pmatrix} \psi_e \\ \psi_i \end{pmatrix} = L_M \psi = 0$$

As an example of your mighty power,
 you create, sustain & make evolving of an electron revealed to Dirac as follows:

$$1 = e^{i0} = e^{i0} e^{i0} = e^{-iL+iL} e^{-iM+iM}$$

$$(\cos L - i \sin L)(\cos L + i \sin L) e^{-iM+iM} =$$

$$\left(\frac{m}{E} - i \frac{|\mathbf{p}|}{E}\right) \left(\frac{m}{E} + i \frac{|\mathbf{p}|}{E}\right) e^{-ip^\mu x_\mu + ip^\mu x_\mu}$$

$$= \left(\frac{m - i|\mathbf{p}|}{E}\right) \left(\frac{m + i|\mathbf{p}|}{E}\right) e^{-ip^\mu x_\mu + ip^\mu x_\mu}$$

$$= \left(\frac{m^2 + \mathbf{p}^2}{E^2}\right) e^{-ip^\mu x_\mu + ip^\mu x_\mu} = \frac{E^2 - m^2}{\mathbf{p}^2} e^{-ip^\mu x_\mu + ip^\mu x_\mu}$$

$$= \left(\frac{E - m}{-|\mathbf{p}|}\right) \left(\frac{-|\mathbf{p}|}{E + m}\right)^{-1} \left(e^{-ip^\mu x_\mu}\right) \left(e^{-ip^\mu x_\mu}\right)^{-1} \rightarrow$$

$$\frac{E - m}{-|\mathbf{p}|} e^{-ip^\mu x_\mu} = \frac{-|\mathbf{p}|}{E + m} e^{-ip^\mu x_\mu} \rightarrow \frac{E - m}{-|\mathbf{p}|} e^{-ip^\mu x_\mu} - \frac{-|\mathbf{p}|}{E + m} e^{-ip^\mu x_\mu} = 0$$

$$\rightarrow \begin{pmatrix} E - m & -|\mathbf{p}| \\ -|\mathbf{p}| & E + m \end{pmatrix} \begin{pmatrix} a_{e,+} e^{-ip^\mu x_\mu} \\ a_{i,-} e^{-ip^\mu x_\mu} \end{pmatrix} = \begin{pmatrix} L_{M,e} & L_{M,i} \end{pmatrix} \begin{pmatrix} \psi_{e,+} \\ \psi_{i,-} \end{pmatrix} = L_M \psi = 0$$

$$\rightarrow \begin{pmatrix} E - m & -\boldsymbol{\sigma} \cdot \mathbf{p} \\ -\boldsymbol{\sigma} \cdot \mathbf{p} & E + m \end{pmatrix} \begin{pmatrix} A_{e,+} e^{-ip^\mu x_\mu} \\ A_{i,-} e^{-ip^\mu x_\mu} \end{pmatrix} = \begin{pmatrix} L_{M,e} & L_{M,i} \end{pmatrix} \begin{pmatrix} \psi_{e,+} \\ \psi_{i,-} \end{pmatrix} = L_M \psi = 0$$
