Proof of Speeds Exceeding the Speed of Light Using the High-Energy Neutrino and Amaterasu Particles in the Universe

Gh. Saleh

Saleh Research Centre, Netherlands

Considering the energy value measured by the detectors ($E_{Amaterasu} = 20\,TeV$ & $E_{Neutrino} = 1\,TeV$) [1, 2], this value shows, firstly, that these particles exist and, secondly, that their energy is considerable relative to that of subatomic particles.

$$E_{Amaterasu} \gg E_{Subatomic\ particle}$$

$$E_{Neutrino} \gg E_{Subatomic\ particle}$$

Taking a golf ball ($m = 45\ g$) for comparison, the energy of these particles is equivalent to that of a golf ball moving at such speeds:

$$m_{golf\ ball} = 4.5 \times 10^{-2}\ kg$$

$$E_{Amaterasu} = 20\,TeV \cong 3.2 \times 10^{-6}\ j$$

$$E = \frac{1}{2}mv^2 \Rightarrow v_{golf\ ball} = 1.2\ \times 10^{-2}\ {}^{m}/_{s}$$

Or

$$m_{golf\ ball} = 4.5 \times 10^{-2}\ kg$$

$$E_{Neutrino} = 1\,TeV \cong 1.6 \times 10^{-7}\ j$$

$$E = \frac{1}{2}mv^2 \Rightarrow v_{golf\ ball} = 2.67 \times 10^{-3}\ {}^{m}/_{s}$$

This comparison illustrates that these unseen particles possess an exceedingly high energy. Based on the classical kinetic energy formula ($E = \frac{1}{2}mv^2$), by comparing the mass ratio of these particles to that of the golf ball and equating their energies, it can be readily be concluded that extremely high speeds must be considered for these particles, and that the speed of these particles must be “nC” for them to possess such a kinetic energy.

Notice:

It should be taken into account that the energy of these particles is exceedingly high because high-energy sources such as white holes, the Big Bang, dying massive stars or supernova explosions eject particles in projectile form, thereby transferring an extremely high energy through them.

www.saleh-theory.com
postmaster@saleh-theory.com

References:

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[2] Saleh, Gh. "A New Derivation of the Frequency, Wavelength, Density, Angular Velocity, Mass, etc. of the Neutrino, Using Data from the Large IceCube Laboratory and the KATRIN Experiment, Together With the Mathematical and Physical Calculations of Saleh Research Group, 2026." Saleh Theory, 17 Oct. 2026, https://saleh-theory.com/article/a-new-derivation-of-the-frequency-wavelength-density-angular-velocity-mass-etc-of-the-neutrino-using-data-from-the-large-icecube-laboratory-and-the-katrin-experiment-together-with-the-mathematical-and-physical-calculations-of-saleh-research-group-2026