

The relation of particle sequence to atomic sequence

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In this paper, we take the first steps of simplifying particles into a linear function that organizes particles based on their particle number, similar to how atoms are arranged by atomic number. This repeats the method that was used to organize atomic elements and create the Periodic Table of Elements in the 1800s. The solution to linearize particles into a predictable function is not as simple as atomic elements, but it does exist. We will introduce an equation that fits known particles into a linear function and enables the prediction of future particles based on missing energy levels. It also predicts an exact mass of the neutrino. To accomplish this, particles are first organized by particle numbers, similar to atomic numbers in the Periodic Table of Elements and then charted against their known Particle Data Group energy levels. The results show similarities between particles and atomic elements – in both total numbers in formation and also in numbers where both are known to be more stable.

Key words: neutrino, atomic numbers, periodic table, leptons, Mendeleev.

Publication

This paper has now been published in the Journal of Physical Mathematics at:

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Other Publications by the Author on Subject

The concepts from this paper – that the mathematical proof exists for a fundamental particle – were incorporated into a larger theory describing the creation of particles and photons and the forces that describe their motion. This publication is available in e-book format on Amazon at:

[Yee, J., *The Particles of the Universe 2: Disrupted*, Amazon Digital Services, \(2017\)](https://www.amazon.com/dp/B078HTWT7W)

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