

# An Electrino and Positrino Based Narrative and Model of Nature

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## 1. INTRODUCTION

The electrino  $\varepsilon^-$  and positrino  $\varepsilon^+$  are the two fundamental particles that lead to a powerful new narrative and model of emergent nature.

## 2. MODEL FOUNDATION AND HYPOTHESIS

### 2.1. Electrinos and Positrons

The model is based on two oppositely charged fundamental electromagnetic particles, the **electrino**  $\varepsilon^-$  and **positrino**  $\varepsilon^+$ , each with  $|1/6|$  charge. These Planck scale indestructible particles carry energy and compose both standard model particles and a universe permeating gas and plasma.

### 2.2. Emission of Electrinos and Positrons from Black Holes

In a black hole of sufficient energy and conditions, such as an active galactic center SMBH,  $\varepsilon^-$  and  $\varepsilon^+$  particles are the decomposition products of high energy transmutation of matter-energy. At very high energy,  $\varepsilon^-$  and  $\varepsilon^+$  form a plasma,  $\varepsilon^*$ , that emits via jets from SMBH.

### 2.3. Cosmos Permeating Graviton Gas

The  $\varepsilon^*$  plasma cools into a universe permeating graviton gas, called  $\varepsilon_8$ . The graviton gas creates the spacetime characteristics of general relativity, the superfluid ether underlying quantum mechanics, and is the carrier of electromagnetic and gravitational waves. Gravitons are constructs of one or more pairs of  $\varepsilon^-$  and  $\varepsilon^+$ . The  $\varepsilon_8$  graviton gas structure implements an E8 mathematical geometry, which can describe the standard model and gravity (Lisi).

### 2.4. Plasma/Gas Decays to Standard Model Particles

As  $\varepsilon^*$  and  $\varepsilon_8$  energy decays via conservative transactions,  $\varepsilon^-$  and  $\varepsilon^+$  particles emerge and combine with other  $\varepsilon^-$  and  $\varepsilon^+$  particles to become standard model matter-energy particles. The mapping of  $\varepsilon^-$  and  $\varepsilon^+$  to key standard model particles is as follows: neutrino  $3\varepsilon^-/3\varepsilon^+$ , electron  $6\varepsilon^-$ , up quark  $1\varepsilon^-/5\varepsilon^+$ , down quark  $4\varepsilon^-/2\varepsilon^+$ , neutron  $9\varepsilon^-/9\varepsilon^+$ , proton  $6\varepsilon^-/12\varepsilon^+$ .

### 2.5. Gravitational Wave Energy Heats the Graviton Gas

Matter-energy interacts electromagnetically with local graviton gas to exchange gravitational waves, which spread spherically through  $\varepsilon_8$  at the speed of light. The “mass” energy of the continuously refreshed gravitational wave heats the  $\varepsilon_8$  graviton gas. The local temperature (energy) gradient of  $\varepsilon_8$  causes a convective force on standard matter-energy, aka the force of gravity.

### 2.6. Physics Parameters Run with $\varepsilon_8$ Temperature (Energy)

Elevated  $\varepsilon_8$  temperature (energy) increases  $\varepsilon_8$  permittivity  $\varepsilon$  and permeability  $\mu$ , reducing local speed of light, and causing refraction commonly attributed to curved spacetime “lensing” around dense matter. Increasing  $\varepsilon$  and  $\mu$  change  $\varepsilon_8$  and free matter electromagnetics, resulting in matter compaction and time dilation as described by general relativity. Physics “constants,” also including the fine structure value, can be understood as the low temperature asymptote of these variables.

### 2.7. Quantum Mechanics

Quantum mechanics describes interactions of standard matter, without describing  $\varepsilon^-$  and  $\varepsilon^+$  and their role in  $\varepsilon^*$  and  $\varepsilon_8$ , nor the decay of  $\varepsilon^*$  and  $\varepsilon_8$  into standard matter.

### 2.8. Galaxy Rotation Curves

Galaxy rotation curves are influenced by mass eliminating matter transmutation to  $\varepsilon^-$  and  $\varepsilon^+$  in active galactic SMBH and their jetting as outflowing  $\varepsilon^*$ . Matter produced by  $\varepsilon^*$  and  $\varepsilon_8$  decay plays a role in galaxy dynamics, as well.

### 2.9. The Cosmos Surface

If the cosmos has a surface, and is not infinite, then a steady state is reached at the surface with outflow of the  $\varepsilon_8$  gas balanced by  $\varepsilon_8$  decay into standard matter-energy. It is an open question if the surface decay process is conservative in the sense that no matter-energy escapes permanently beyond the surface of the cosmos gas bubble.

### 2.10. Cosmic Recycling

There is a cycle of matter-energy being reduced to  $\varepsilon^-$  and  $\varepsilon^+$  particle  $\varepsilon^*$  plasma in a galactic black hole, emission/jetting of  $\varepsilon^*$  plasma,  $\varepsilon_8$  gas formation,  $\varepsilon^*$  and  $\varepsilon_8$  outflow,  $\varepsilon^*$  and  $\varepsilon_8$  decay into standard matter-energy, and a journey back to a galactic black hole to be recycled as  $\varepsilon^*$  plasma. This cycle does not require a big bang nor an ever-expanding universe. As a result, science must, at least for the time being, view the age of the universe as unknown.

## 3. CONCLUSION

The electrino  $\varepsilon^-$  and positrino  $\varepsilon^+$  are the basis of all matter, the carriers of all energy, and form the  $\varepsilon^*$  plasma and  $\varepsilon_8$  gas which permeate space. Neither GR nor QM include  $\varepsilon^-$ ,  $\varepsilon^+$ ,  $\varepsilon^*$  or  $\varepsilon_8$ . A new narrative emerges that requires recasting and reframing of experimental results and theory from physics, cosmology, and astronomy.

### References

Lisi, A. G. (n.d.). “An Explicit Embedding of Gravity and the Standard Model in E8”. *arXiv:1006.4908 [gr-qc]*.

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