Review of: "Annihilation-free chemical theory of subatomic particles"

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Potential competing interests: No potential competing interests to declare.

The authors present a “chemical” model for elementary particles, suggesting that photons are captured by other particles, instead of annihilated. The model lacks mathematical rigour and precision, as well as compatibility with current measurements of particle physics. I do not recommend this preprint for publication, since it lacks a more profound understanding of particle physics. The main points that show this are the following:

1. The authors claim that the processes from (r1-r5) are one photon short, but make no clear statement of the reason (even though that the fundamental weak interaction explains and predicts these processes with great accuracy).

2. The electron mass is said to be predicted by their model, but proof of this is not found along the document

3. Representing the fundamental particles as matrices and explaining a few processes with matrix algebra does not explain all the fundamental interactions from the Standard Model

4. Only a few processes are explained by this model. For example, the invisible decay of the Z boson into a neutrino-antineutrino pair fails to be explained by the matrices representing these particles

5. The model does not provide a distinction between particles of the same family