

# Review of: "Dark Energy as an intrinsic property of Matter"

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The manuscript deals with a new interpretation of dark energy in the context of General Relativity (GR). This is a timely topic and of general interest to a broad audience. Specialists, however, will be skeptical, since the prevailing opinion is "that nobody believes that with GR the last word about gravitation is spoken" e.g. Sean Carroll in his GR book. Quantum effects should be considered. Anyway, I agree: GR is the best accepted theory of gravitation today, so let us stick to your proviso. Your statement, that "matter" may continuously emit space, as an intrinsic property, is interesting. However, the statement remains quite unclear. For further improvement, please define "matter". Is "space" part of matter? What do you understand by "space?" Are both related to energy, and is energy conserved? Does emission of space reduce the energy stored in massive particles? Or does it increase the energy of particles since space has negative energy in Newton's gravitation? In GR this is ambiguous, since the only condition is that Noether-flux is divergence free? The mathematical treatment is fine. But what do we learn about "matter?"