

Penrose Objective Reduction in Finite Precision Spacetime

Terry Bollinger

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<https://www.youtube.com/watch?v=xIDNh5WYGbU&lc=UgxQI9yk9G2STFkKuXF4AaABAq>

A Comment on the Closer to Truth Chats post:

Roger Penrose on Spacetime, Quantum Theory, and General Relativity (Part 2)

<https://youtu.be/xIDNh5WYGbU?t=54m33s>

[54:33](#) Penrose "what I'm saying is that [the principle of superposition and Galileo's principle of equivalence] are incompatible with each other."

Yes, but only if one arbitrarily assumes the precision of the spacetime fabric is independent of the energy contained within it. If the smallest grains of spacetime are instead energy-indexed Schrödinger wave functions — that is, if the smallest units of bendable spacetime are adjacent and overlapping sets of particle and energy relationships free even from trivially small, super-asymmetric acceleration effects — your concept of gravitationally-induced objective reduction should emerge for any gravity field that converges and thus squeezes (accelerates) adjacent granules.

However, gravitational divergence reductions would be rare due to competition, like sloths attempting to outrace jaguars. Angular acceleration via force bonding easily comes in first and is the link to why particles exist in the first place.

Linear acceleration, including the geodesics blocked by the Pauli exclusion in stars and planets, comes in second.

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PDF: <https://sarxiv.org/apa.2022-12-16.2258.pdf>