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Gravitational Field of an Oscillator in Proper Time

We show that a proper time oscillator can mimic a point mass at rest in general relativity. The spacetime outside a proper time oscillator is a Schwarzschild field. Although the singularity in our model acts as a boundary for incoming geodesics, the spacetime structure inside this boundary is well-defined. The proper time oscillator is cloistered behind the singularity.

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