

Prospects of experimental tests of a fundamentally semi-classical gravitation theory

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I discuss the hypothetical possibility of a theory in which only matter is quantised, but gravity is described by the classical theory of General Relativity, even at the fundamental level. From the most naive approach for such a theory, one obtains the Schrödinger-Newton equation as a non-relativistic limit. I present possibilities of experimental tests of such an alternative to Quantum Gravity.

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