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# HIGH ENERGY PHYSICS COLLOQUIA

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## ON QUANTUM CORPUSCULAR CORRECTIONS TO THE NEWTONIAN POTENTIAL

### Abstract

We consider the weak field limit of Einstein field equations and show that the gravitational potential measured by static observers can be reproduced by a coherent state of (scalar) gravitons. In the course of the derivation, we will highlight a few peculiar results that have been claimed to be relevant for corpuscular models of black holes.

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