

Abstract Submitted  
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**A testable solution to the problem of quantum gravity** ALEXANDER MAYER, Pritzker Fellow — The key to solving the quantum gravity conundrum is to identify the energy source of the quantized waves whose superposition creates the gravitational field. The linear sum of the distinct rest energy and relativistic momentum energy components of mass energy yields a complete systemic energy budget that is in excess of the mass energy, which provides the surplus energy required to produce the gravitational field. This realization leads to a simple and compelling model of quantum gravity that may be empirically testable.

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