

Abstract Submitted  
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**On the Principles and Directions of Modern Physics** THOMAS EVANS, Belvidere High School — We review the foremost theories of quantum gravity within research theoretical physics; string theory and LQG. Several fundamental concepts in these proposals are reconciled and proposed at the structural core of a fundamental new theory of quantum gravity; based fundamentally off of a formal mathematical interpretation of the concept of asymptotic safety. The basis of the theory of quantum mechanics is rigorously reviewed from the framework of our new theory of quantum gravity; which in many respects is a unification of basic ideas within string theory and LQG. We propose a deviation from the Heisenberg Uncertainty Principle which is negligible in nearly all observable phenomena, and demonstrate its' benefits to our theoretical formulations, specifically those made recently within string theory.

Thomas Evans  
Belvidere High School

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