

Abstract Submitted
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A Focus on the Quantum Source of Gravity SHANTILAL GORADIA, Gravity Research Institute, Inc. — If Newtonian gravitation is modified to use surface-to-surface separation between particles, it can have the strength of strong force coupling constant between nucleons, one Planck length apart [1,2]. All particles may be emitting $1/r$ propagation of graviton flux through their quantum mouths. My profound proposal is consistent with holographic principle, uncertainty principle, inflationary universe, some views of Einstein, Feynman, Rutherford, variations of coupling constants, and other observations. It asks the same question as does Hawking [3]. My theory resolves renormalization issue. It explains short range of strong force as a difference, potentially clearing the uncertainty question. I notice one inconsistency: it may imply that spin-zero pions push nucleons apart, not pull them together. I predict they do. This prediction resolves the instability issue of the nucleus addressed in [4]. [1] S. G. Goradia, physics/0210040. [2] <http://www.gravityresearchinstitute.org> www.gravityresearchinstitute.org [3] Do Wormholes Fix the Constants of Nature? Nuclear Physics B335 155-165, (1990). [4] S. K. Shrivastava, Aspects of Gravitational Interactions, p. 90 (1998).

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