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Steven Carlip*, Physics Department, 1 Shields Avenue, UC Davis, Davis, CA 95616. *Quantum fluctuations, light, and the small scale structure of spacetime.*

Quantum fluctuations of the stress-energy tensor almost certainly cause light rays to converge very rapidly at distances a bit above the Planck scale. I will explain why this is true, and offer some speculations about general implications for the small scale structure of spacetime. (Received September 05, 2018)