

University of California, Davis
Physics Department
Particle Physics Seminar



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“ Generalized uncertainty principles and holography”

Generalized uncertainty principle(s) (GUPS) in 4 (+n) dimensions and their holographic properties are investigated. The expected holographic scaling holds only for one kind of GUP and only in four dimensions: when extra spatial dimensions are admitted, holography seems to be destroyed. This might suggest that holographic principle could constrain spacetime to be four dimensional.

Tuesday, May 16, 2006

4:10pm, 416 Phy/Geo