

Curvature Correlators in Lattice Quantum Gravity

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We study the curvature-curvature correlator for quantum gravity in the case of degenerate Euclidean Dynamical Triangulations, drawing on recent insights to modify the procedure for calculating connected correlation functions to reduce finite size effects. We find asymptotically a positive norm state, and a decay consistent with a power law, but cannot yet resolve what this power is in the continuum limit. Preliminary results suggest a power possibly consistent with our expectations for gravity.

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