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Christiansen – Local Quantum Gravity

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I investigate the ultraviolet behaviour of quantum gravity within a functional renormalization group approach. In particular, the scale- and momentum-dependence of the graviton propagator and the graviton three-point function are studied and the fixed point structure of the theory is analyzed. Moreover, a novel locality property as an essential feature of a well-defined renormalization group flow is introduced and locality in quantum gravity is discussed.

Presenter: Dr CHRISTIANSEN, Nicolai (Institute for Theoretical Physics, Heidelberg University)

Session Classification: Contributed talks