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Title: Spin-foam models of Quantum Space-Time: Semiclassics

Abstract: Spin-foam models are a proposal for a non-perturbative and background-independent theory of quantum gravity, where classical space-time is reduced at the quantum level to discrete combinatorial structures. In this short talk I will introduce the general formulation of the theory, and I will show in which sense a notion of classical geometry can be asymptotically recovered in a relevant regime. Recent results regarding the semiclassics of a particular model (Lorentzian EPRL) will finally be discussed. This talk reports on joint work with Sebastian Steinhaus. Pre-print at arXiv:2106.15635.