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Quantum fate of the BKL scenario

We present the quantum model of the asymptotic dynamics underlying
he Belinski-Khalatnikov-Lifshitz (BKL) scenario. The classical BKL
scenario concerns generic singularity of general relativity. The quantum
BKL scenario shows that gravitational singularity can be replaced by
quantum bounce that presents a unitary evolution of considered
gravitational system. Our results suggest that quantum general
relativity has a good chance to be free from singularities.

Primary author: Prof. PIECHOCKI, Włodzimierz (National Centre for Nuclear Research)

Presenter: Prof. PIECHOCKI, Włodzimierz (National Centre for Nuclear Research)