

به نام خدا

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سپیده باخدا

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موضوع

Loop Quantum Gravity

چکیده

The problem of finding the quantum theory of general relativity, and thus understanding what quantum spacetime is, is still open. There are several approaches to Quantum Gravity but none of them can be called successful to date although the research problem has been identified already more than 80 years ago and despite the tremendous efforts of many physicists, among them giants such as Dirac, Heisenberg and Pauli.

Loop quantum gravity is a mathematically well-defined, non-perturbative and background independent quantization of general relativity. Research in loop quantum gravity today forms a vast area, ranging from mathematical foundations to physical applications. In this talk I will review its main ideas and discuss its results.

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