

Combo Colloquium: "What have we learned so far in quantum gravity?"

Wednesday, 24 March 2021 16:15 (1 hour)

The problem of quantum gravity is open because we do not have a preferred complete theory that has found direct empirical support. But there is a reliable theory of quantum gravity below the Planckian energy and there are consistent tentative quantum gravity theories; hence quantum theory and general relativity are not incompatible. Furthermore, there are recent empirical observations that disconfirm tentative theories, and there is also a concrete possibility to observe a quantum gravity phenomenon in the lab, in a not too distant future, hence research in quantum gravity is connected to observations and experiments.

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