

Roberto Percacci (SISSA, Italy): *Gravity as a quantum field theory*

Classical gravity is understood as the geometry of spacetime, and seems very different from the other known interactions. In my talk I will instead stress the analogies: Like strong interactions, gravity can be fully described at low energy by an effective quantum field theory, and like electroweak interactions, it is a gauge theory with a massive connection, that can be interpreted as the outcome of the Higgs phenomenon. I will also briefly discuss the possibility of finding a UV complete quantum field theoretic description of all interactions.