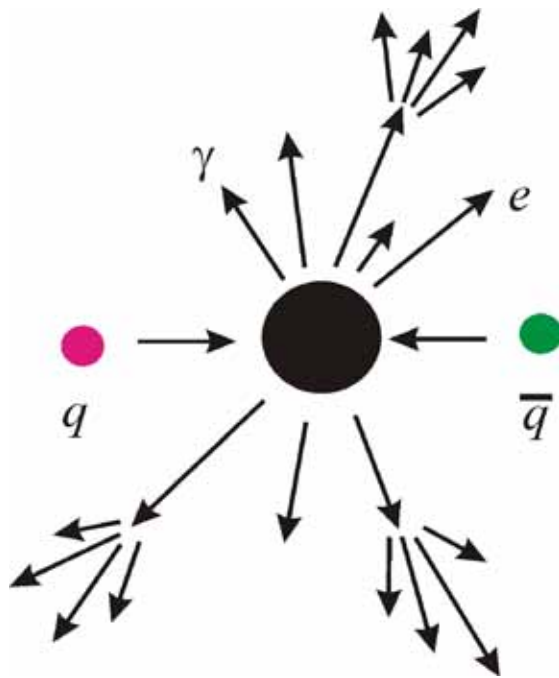


Observables of Quantum Gravity at the LHC

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The search for a satisfying theory that unifies general relativity with quantum field theory is one of the major tasks for physicists in the 21st century. Within the last decade, the phenomenology of quantum gravity and string theory has been examined from various points of view, providing new perspectives and testable predictions.

I will give a short introduction into these effective models which allow to extend the standard model and include the expected effects of the underlying fundamental theory. I will talk about models with extra dimensions, models with a minimal length scale and those with a deformation of Lorentz-invariance. The focus is on observable consequences, such as graviton and black hole production, black hole decays, and modifications of standard-model cross-sections.