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Asymptotically safe gravity at the LHC and beyond

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Extra-dimensional models with a fundamental Planck scale as low as the electro-weak scale offer an excellent opportunity to test the quantization of gravity at colliders. If gravity becomes asymptotically safe, its high-energy behaviour is governed by a fixed point of the renormalisation group. I discuss the asymptotic safety scenario for gravity and experimental signatures at colliders for graviton-induced Drell-Yan spectra in models with a low quantum gravity scale.

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Classification de Session: Beyond the Standard Model

Classification de thématique: Theory