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Quantum Einstein gravity meets ATLAS & CMS

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We explain how ATLAS & CMS data constrain the fundamental parameters of quantum Einstein gravity with extra dimensions. We exploit constraints from unitarity and make predictions for gravitational Drell-Yan production, graviton emission, and mini-black hole production. When combined with LHC data, our findings lead to new bounds on the fundamental Planck scale, which are weakener than those obtained by effective theory.

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