



Sommerfeld Theory Colloquium

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The search for the fundamental scale of gravity

Already within the Standard Model, we expect that the fundamental scale of gravity, the scale where gravity becomes strong, is slightly lower than the Planck scale. Theories with extra dimensions or with many additional particle species enhance this effect and are motivated by giving a unified solution to the Hierarchy problem, Dark Matter, and neutrino masses. In this talk, we will discuss their phenomenology in low-energy experiments, their unique astrophysical signatures, and present recent experimental results.

Wednesday, 22 October 2025, 16:15h, Room A348, Theresienstr. 37/III

Prof. Gia Dvali