24th Australian Institute of Physics Congress



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Topology, quantum gravity and particle physics

Wednesday 14 December 2022 11:00 (30 minutes)

In this talk, I will describe how the non-trivial topology of curved spacetime induces quantum tunnelling between vacuum states that profoundly affect the properties and interactions of elementary particles. Namely, I will argue that gravitational instantons cause combined parity violation.

Primary author: KOBAKHIDZE, Archil

Presenter: KOBAKHIDZE, Archil

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