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Finite-volume effects in QFT and preventing singularities in gravity

Friday 13 September 2024 12:00 (30 minutes)

Finite-volume effects in QFT allow the violation of the Null Energy Condition, without modified gravity or exotic matter. After reviewing few known features arising from the Casimir effect, I will explain that tunnelling between degenerate vacua also induces NEC violation. I will then discuss resulting mechanisms which can help avoid singularities in gravity.

Presenter: ALEXANDRE, Jean