

Cosmology based on gauge theories of gravity

Wednesday 12 March 2025 17:35 (5 minutes)

Lorentz gauge theory of gravity with spontaneous symmetry breaking field provides successful description of Λ CDM model, as well as generalised black hole solutions compared to those in General Relativity. This talk summarises these extensions provided by such theory and explores whether this can be realised with different symmetry group, Euclidean gauge for example, and how this will affect further applications in cosmology, such as cosmological perturbation and gravitational waves.

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