

Gravitational experiments in Deep-ground Laboratory

Wednesday 27 August 2025 11:00 (30 minutes)

The exceptional experimental conditions of deep-underground laboratories enable ultra-high-sensitivity force and displacement measurements, which are critical for gravitational studies. This talk will discuss potential experiments in facilities like Jinping Lab, including tests of spaceborne gravitational wave detection technologies, characterization of unknown instrumental noise, investigations of gravity-induced decoherence models, and efforts to distinguish quantum gravity from classical gravity. Such experiments could provide unique insights into fundamental physics by leveraging the pristine low-noise environment.

Collaboration you are representing

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