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Probing the small-scale structure of spacetime

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Abstract content

Many theoretical attempts at understanding the Planck-scale structure of spacetime can accommodate minute departures from Lorentz and CPT invariance. At presently attainable energies, such effects are expected to be accurately described within effective field theory. Such a field theory, in turn, can be employed to identify currently feasible experimental tests. This talk presents an overview of the theoretical motivations, the low-energy framework, and the phenomenological implications within this context.

Summary

Primary author(s) : LEHNERT, Ralf

Presenter(s) : LEHNERT, Ralf

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