

Testing quantum gravity with LISA

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We briefly review whether and how some theories of quantum gravity could be tested by LISA, either with stand-alone data or in combination with other observations. In particular, we focus our attention on string theory, loop quantum gravity, asymptotic safety, nonlocal quantum gravity, and multifractional spacetimes. We stress the importance and meaning of following top-down approaches (from a well grounded theory to experiments) rather than a bottom-up strategy using ad hoc phenomenological models.

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Classification de Session: Talks and group discussions