

At the Corner of Quantum and Gravity

Thursday, 27 March 2025 09:15 (60)

In this talk, I will begin with a broad overview of the problem of quantum gravity — the challenge of reconciling general relativity with quantum mechanics. Along the way, I will highlight key developments from recent decades that offer valuable insights into the features that a consistent quantum theory of gravity is expected to incorporate. I will then describe a bottom-up strategy that takes symmetries as the foundational principle. Next, I will discuss how this framework can be applied to the problem of local subsystems and spacetime entanglement entropy. I will also mention some outlooks and perspectives for future directions.

Presenter(s) : VARRIN, Ludovic