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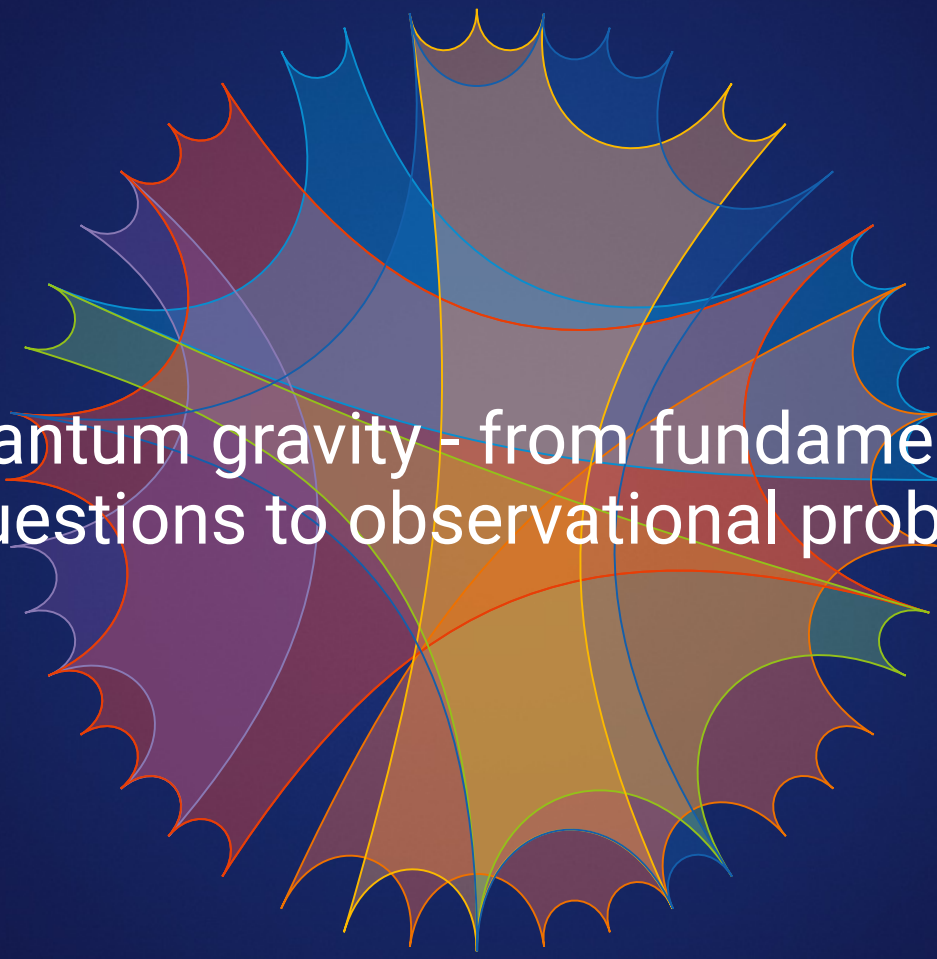

Quantum gravity - from fundamental questions to observational probes

December 05, 2025, 1:30 PM, Phil 12 GHs

COFFEE & SNACKS IN ROOM 106

ZOOM: Meeting ID: 935 6549 3662, Code: 928036

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ABSTRACT

What is the quantum structure of spacetime? To answer this question, we need a quantum theory of gravity. In this talk, I will explain the key ideas underlying several different approaches to quantum gravity. In a second part, I will discuss how quantum gravity could affect black-hole spacetimes and how quantum gravity theories connect to modified gravity theories, in which black holes beyond General Relativity are often investigated.

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