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VISITING PROGRAM

TSVP TALK

Quantum Perspectives on Space, Time, and Gravity

2026
WED. **Nov. 18**

10:00–11:00

HYBRID L4E48, ZOOM

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What if space, time, and gravity themselves were shaped by quantum principles? In this talk, we will explore how new mathematical ideas reveal connections between quantum theory and the geometry of spacetime. While general relativity describes gravity through geometry, quantum theory is formulated in terms of algebraic structures. We will discuss how these structures can be reconciled to describe gravity in quantum language, offering new perspectives on the quantum geometric nature of the universe.

Constructor University Bremen

Peter Schupp

Peter Schupp is Professor of Physics at Constructor University Bremen (formerly Jacobs University/IUB). His research lies at the interface of theoretical and mathematical physics, with a focus on quantum theory and gravity. He studied at the University of Heidelberg, received his MSc from Caltech in 1990 and his PhD from UC Berkeley in 1993. Before joining Constructor University, he held positions at LMU Munich and Princeton University.

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