



# INVITATION

as part of the Gravitational Physics  
Lunch Seminar

to the talk by

**Helmut RUMPF**  
(University of Vienna)

on

***“What is really tested in gravitationally mediated entanglement experiments?”***

**Abstract:**

Recently it was proposed that GME experiments may probe linearized gravity only as a quantum controlled field and not as a quantum field theory. I will argue that the concept of a relativistic quantum controlled field is fundamentally flawed because of causality violation.

Quantum control is also implicit in a recent path-integral description of those experiments, which casts doubt on its validity beyond the Newtonian approximation.

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**Time: Tuesday, 1 April 2025, 1:00p.m.**

**Location: Seminar Room A, Währinger Straße 17, 1090 Vienna, 2<sup>nd</sup> floor**

<https://univiena.zoom.us/j/6540036841?pwd=SytyVkZJZzNyRG9IMm13ejIHeHRRUT09>