## The Time Machine Factory [unspeakable, speakable] on Time Travel -



Contribution ID: 109 Type: talk

## Quantum field theory in the presence of time-machines

Monday 23 September 2024 17:15 (35 minutes)

In this talk I analyze the construction of quantum field theory in spacetimes that contain regions with closed timelike curves (CTCs). Additionally, I explore how particle detectors can discern the presence of CTCs in causally disconnected regions and differentiate between various spacetime topologies.

Primary author: ALONSO-SERRANO, Ana (Institut für Physik, Humboldt-Universität zu Berlin)

Presenter: ALONSO-SERRANO, Ana (Institut für Physik, Humboldt-Universität zu Berlin)

Session Classification: Session II. Time travel and consistency