

## **Session Program**

**7-9 Jul 2026**

# **FAU<sup>2</sup> Workshop: Quantum Gravity Meets Quantum Information - Foundations, Frameworks and Frontiers**

**9 Thu**

ECAP Laboratory Building  
Nikolaus-Fiebiger-Straße 2 91058 Erlangen

## Wednesday 8 July

12:00

### 9 Thu: Session 4 Wed

**Session** | **Location:** ECAP Laboratory Building, Nikolaus-Fiebiger-Straße 2 91058 Erlangen

12:00–12:40 **Rethinking coarse graining relationally in quantum gravity (online)**

**Speaker**

Renata Ferrero

12:40–13:40

**Panel: Bridging Quantum Gravity and Quantum Information: Lin-Qing Chen, Philipp Höhn, Wolfgang Wieland**

13:40–14:20 **Tractatus Quanticus**

**Speaker**

Carlo Rovelli

14:20

14:50

### 9 Thu: 5 Wed

**Session** | **Location:** ECAP Laboratory Building, Nikolaus-Fiebiger-Straße 2 91058 Erlangen

14:50–15:30 **Localised Quantum Reference Fields**

**Speaker**

Fabio Mele

15:30–16:10

**Reduced Quantum-Reference-Frame Channels for Open Quantum Systems**

**Speaker**

Paolo Luppi

16:10–16:50 **Physical projector and spectrum of kinematical operators**

**Speaker**

Matteo Bruno

16:50

## Thursday 9 July

17:20

### 9 Thu: 9 Thu

**Session** | **Location:** ECAP Laboratory Building, Nikolaus-Fiebiger-Straße 2 91058 Erlangen

17:20–18:00

#### **Quantum effects on local observers in an exactly solvable model of quantum gravity**

**Speaker**

Bruno Torres

18:00–18:40

#### **A loop quantization of the marginally bound Lemaitre-Tolman-Bondi dust model**

**Speaker**

Luca Cafaro

18:40–19:20

#### **Parametrization of the primordial power spectrum in Loop Quantum Cosmology (online)**

**Speaker**

Antonio Vicente-Becerril

19:20