

Session Program

7-9 Jul 2026

FAU² Workshop: Quantum Gravity Meets Quantum Information - Foundations, Frameworks and Frontiers

8 Thu

ECAP Laboratory Building
Nikolaus-Fiebiger-Straße 2 91058 Erlangen

Wednesday 8 July

17:20

8 Thu: 6 Wed

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

17:20–18:00 **The large-scale structures of entanglement**

Speaker

Alexander Stottmeister

18:00–18:40

Imprints of different descriptions of (quantum) gravity on gravitational decoherence models (online)

Speaker

Max Joseph Fahn

18:40–19:20

Entangling Interactions and the Meaning of Quantumness (online)

Speaker

Eduardo Martin-Martinez

19:20

Thursday 9 July

12:00

8 Thu: 7 Thu

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

12:00–12:40

Quantum Reference Frames for Quantum Gravity: The Relational Gravitational Path Integral

Speaker

Luca Marchetti

12:40–13:40

Panel: Bridging Philosophy of Science and Quantum Foundations: Gemma De les Coves, Stephan Hartmann, Daniele Oriti Chair: Eugenio Bianchi

13:40–14:20

The Geometry of the Guiding Center: Vielbein Phase Space, Curvature Moment Maps, and the Spin-GMP Algebra

Speaker

Yichen Hu

14:20

14:50

8 Thu: 8 Thu

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14:50–15:30

Effective continuum physics from quantum gravity

Speaker

Daniele Oriti

15:30–16:10

Coarse-graining & dynamics of elementary blocks in canonical LQG

Speaker

Mehdi Assanioussi

16:10–16:50

Classical Overlap and Area-Type Scaling from Symplectic Reduction

Speaker

Varun Kushwaha

16:50