Emergent spacetime geometry – from quantum simulation to cosmology

Report of Contributions

Contribution ID: **1**
Type: **not specified**

Experiments for rotational superradiance in a polaritonic fluid of light

Monday, 19 February 2024 09:00 (40 minutes)

Presenter: JACQUET, Maxime

Session Classification: Presentations

Contribution ID: **2** Type: **not specified**

Curved and Expanding Spacetimes studied with a Quantum Field Simulator

Monday, 19 February 2024 09:40 (40 minutes)

Presenter: SPARN, Marius

Session Classification: Presentations

Contribution ID: **3**

Type: **not specified**

QFT simulators in and beyond the linear regime

Tuesday, 20 February 2024 11:50 (40 minutes)

Presenter: ERNE, Sebastian

Session Classification: Presentations

Contribution ID: **4**   Type: **not specified**

Casimir cosmology

Monday, 19 February 2024 11:50 (40 minutes)

Presenter: LEONHARD, Ulf

Session Classification: Presentations

Contribution ID: **5**   Type: **not specified**

Rotating Curved Spacetime Signatures from a Giant Quantum Vortex

Monday, 19 February 2024 14:00 (40 minutes)

Presenter: SVANCARA, Patrik

Session Classification: Presentations

Contribution ID: 6   Type: **not specified**

Quantum critical Eliashberg theory, the SYK superconductor and their holographic duals

Tuesday, 20 February 2024 09:00 (40 minutes)

Presenter: SCHMALIAN, Jörg

Session Classification: Presentations

Contribution ID: **7**

Type: **not specified**

Stationary spontaneous Hawking radiation and beyond: Observing the time evolution of an analogue black hole

Tuesday, 20 February 2024 09:40 (40 minutes)

Presenter: MUÑOZ DE NOVA, Juan Ramón

Session Classification: Presentations

Contribution ID: **8**   Type: **not specified**

Geometrical Manifestation of Gravity

Tuesday, 20 February 2024 10:20 (40 minutes)

Presenter: HEISENBERG, Lavinia

Session Classification: Presentations

Contribution ID: **9**　　　　　　　　　　　　　　　　　　Type: **not specified**

Verification of the area law of mutual information in a one-dimensional cold atomic quantum simulator

Monday, 19 February 2024 10:20 (40 minutes)

Presenter: TAJIK, Mohammadamin

Session Classification: Presentations

Contribution ID: **10** Type: **not specified**

A new platform for dipolar quantum gases of magnetic atoms in quasi two dimensions

Tuesday, 20 February 2024 14:00 (40 minutes)

Presenter: CHOMAZ, Lauriane

Session Classification: Presentations

Contribution ID: **11**   Type: **not specified**

Quantum Simulators for Gravity and Cosmology

Tuesday, 20 February 2024 14:40 (40 minutes)

Presenter: SCHÜTZHOLD, Ralf

Session Classification: Presentations

Contribution ID: **12**   Type: **not specified**

Bernal Bilayer graphene: a tunable Dirac material

Tuesday, 20 February 2024 16:30 (40 minutes)

Presenter: WEITZ, Thomas

Session Classification: Presentations

Contribution ID: **13**   Type: **not specified**

Analog of cosmological particle production in moiré Dirac materials

Tuesday, 20 February 2024 17:10 (40 minutes)

Presenter: TOLOSA SIMEÓN, Mireia

Session Classification: Presentations

Contribution ID: **14**   Type: **not specified**

Scattering Analogy of Cosmological Particle Production in a Quantum Simulator

Tuesday, 20 February 2024 17:50 (40 minutes)

Presenter: SCHMIDT, Christian

Session Classification: Presentations

Contribution ID: 15   Type: **not specified**

Evolution and manipulation of light in photonic mesh lattices

Wednesday, 21 February 2024 09:00 (40 minutes)

Presenter: PESCHEL, Ulf

Session Classification: Presentations

Contribution ID: **16**   Type: **not specified**

Black hole mirages in Weyl semimetals

Wednesday, 21 February 2024 09:40 (40 minutes)

Presenter: HALLER, Andreas

Session Classification: Presentations

Contribution ID: **17**　　　　　　　　　　　　　　　　　Type: **not specified**

Entangled Universe

Wednesday, 21 February 2024 10:20 (40 minutes)

Presenter:　TETRADIS, Nikolaos

Session Classification:　Presentations

Contribution ID: **18** Type: **not specified**

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Wednesday, 21 February 2024 11:50 (40 minutes)

Presenter: WEINFURTNER, Silke

Session Classification: Presentations