

Session Program

6-10 May 2024

**Loops'24 International Conference on
Quantum Gravity**

Black Holes

Broward County Main Library Auditorium
Florida Atlantic University, Fort Lauderdale Campus, 111 E Las Olas Blvd, Fort Lauderdale, FL 33301,
USA

Sunday 5 May

16:30

Black Holes

Session | Location: FAU FTL Room 131

16:30-16:45 **Higher order black hole perturbations**

Speaker

Jonas Neuser

16:45-17:00 **Nonsingular spherical black holes with holonomy corrections**

Speaker

Asier Alonso-Bardaji

17:00-17:15

Revisiting quantum black holes from effective loop quantum gravity #21

Speaker

Geeth Chandra Ongole

17:15-17:30

Quantization of a black hole interior model in Loop Quantum Cosmology

Speaker

Andrés Mínguez-Sánchez

17:30-17:45

Effective loop quantum gravity black holes: A covariant, improved-dynamics scheme

Speaker

Idrus Belfaqih

17:45-18:00 **Spherically-Symmetric Gravity on a Graph**

Speaker

Jorden Roberts

18:00

Monday 6 May

14:00

Black Holes

Session | Location: FAU FTL Room 131

14:00-14:15 **Primordial Black Holes and Loop Quantum Gravity**

Speaker

Francesca Vidotto

14:15-14:30 **Spherical collapse and black hole evaporation**

Speaker

Madhavan Varadarajan

14:30-14:45 **Axial perturbations in Kantowski-Sachs spacetimes**

Speaker

GUILLERMO ANTONIO MENA MARUGAN

14:45-15:00

Uniqueness of the Fock quantization of a massless scalar field in Kantowski-Sachs spacetime and its Hamiltonian.

Speaker

Alvaro Torres-Caballeros

15:00-15:15 **Geometry of the black-to-white hole transition**

Speaker

Farshid Soltani

15:15-15:30

The role of discreteness in the black hole information puzzle: insights from a quantum gravity toy model

Speaker

Sami VIOLLET

15:30-15:45 **Dynamical symmetries for cosmologies and black holes**

Speaker

Francesco Sartini

15:45-16:00 **The white holes predicted by LQG could be dark matter**

Speaker

Carlo Rovelli

16:00

16:30

Black Holes

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16:30-16:45

Shell-crossing singularities/ shock waves in effective Lemaître-Tolman-Bondi collapse

Speaker

Francesco Fazzini

16:45-17:00

Status of Birkhoff's theorem in polymerized semiclassical regime of Loop Quantum Gravity**Speaker**

Luca Cafaro

17:00-17:15

Diffuse emission from black hole remnants**Speaker**

Mateo Pascual Gomez-Cuetara

17:15-17:30

Diffeomorphism covariance and the quantum Schwarzschild interior**Speaker**

Rafael Guolo Dias

17:30-17:45

Temporary horizons: the life and times of a quantum black hole**Speaker**

Samantha Hergott

17:45-18:00

Full spacetime of a minimal uncertainty quantum black hole**Speaker**

Evan Viehneau

18:00-18:15

Thermodynamics from entanglement in quantum field theory and black holes**Speaker**

Erick Muino Garcia

18:15