

## **Session Program**

**6-10 May 2024**

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

## ***Foundation of Quantum Gravity***

Broward County Main Library Auditorium

Florida Atlantic University, Fort Lauderdale Campus, 111 E Las Olas Blvd, Fort Lauderdale, FL 33301,  
USA

# Thursday 9 May

14:00

## Foundation of Quantum Gravity

Session | Location: FAU FTL Room 312

14:00-14:15 **Revisiting the quantum polyhedron****Speaker**

Maite Dupuis

14:15-14:30

**Dynamical frames, relational subsystems and gauge-invariant entanglement entropy****Speaker**

Fabio Maria Mele

14:30-14:45 **Revisiting loop quantum gravity with selfdual variables****Speaker**

Hanno Sahlmann

14:45-15:00 **Coupling of matter to gravity using higher gauge theory****Speaker**

Marko Vojinovic

15:00-15:15

**Graph-changing vertex evolution and volume expectation-value computation****Speaker**

Thiago Lucena de Macedo Guedes

15:15-15:30

**Quantum Properties and Gravitational Field of a Proper Time Oscillator****Speaker**

Hou Yau

15:30-15:45

**Anomalous diffusion and factor ordering in (1+1)-dimensional Lorentzian quantum gravity****Speaker**

Rachel Maitra

15:45