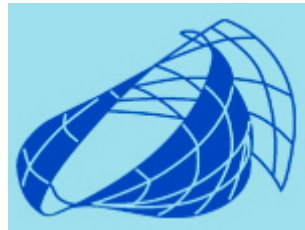


**Session Program**

**Jul 5 - 10, 2021**



**Sixteenth Marcel Grossmann Meeting**

***Quantum Fields***

# Mon, July 5

4:30 PM

## Quantum Fields: Block 1

**Session** | **Location:** Virtual Meeting | **Convener:** Andrei Lebed

4:30 - 4:50 PM

### Breakdown of the Equivalence Principle for a composite quantum body

**Speaker**

Prof. Andrei Lebed

4:50 - 5:10 PM

### Hydrodynamic representation for fermion particles in curved space-times.

**Speaker**

Omar Gallegos

5:10 - 5:30 PM

### Extended DeWitt-Schwinger subtraction scheme, heavy fields and decoupling

**Speaker**

Antonio Ferreira

5:30 - 5:50 PM

### Chiral vortical effect for free fermions on anti-de Sitter space

**Speaker**

Victor E. Ambrus

5:50 - 6:10 PM

### Renormalization, running couplings and decoupling for the Yukawa model in curved spacetime

**Speaker**

Mr Sergi Nadal-Gisbert

6:10 - 6:30 PM

### Black hole induced false vacuum decay from first principles

**Speaker**

Andrey Shkerin

6:30 - 6:50 PM

### Evaporation of four-dimensional dynamical black holes sourced by the quantum trace anomaly

**Speaker**

Paolo Meda

7:30 PM

# Thu, July 8

4:30 PM

## Quantum Fields: Block 2

**Session** | **Location:** Virtual Meeting | **Convener:** Andrei Lebed

4:30 – 4:50 PM

### Stress energy correlator in de Sitter space-time : its conformal masking or growth in connected Friedmann universes

**Speaker**

Mr Ankit Dhanuka

4:50 – 5:10 PM

### Interior of Typical Black Holes

**Speaker**

Dr Yuki Yokokura

5:10 – 5:30 PM

### Ultracompact stars in semiclassical gravity

**Speaker**

Julio Arrechea

5:30 – 5:50 PM

### GENERALIZED HEISENBERG UNCERTAINTY PRINCIPLE IN QUANTUM GEOMETRODYNAMICS AND GENERAL RELATIVITY

**Speaker**

Andrew Beckwith

5:50 – 6:10 PM

### Einstein anomaly with tensors of odd order in six dimensional curved space

**Speaker**

Kohei Yamamoto

6:10 – 6:30 PM

### Causal measurements of quantum fields with local probes

**Speaker**

Maximilian Heinz Ruep

6:30 – 6:50 PM

### Thermalization of harmonic oscillator Unruh-DeWitt detectors

6:50 – 7:10 PM

### Quantum memory and BMS symmetries

**Speaker**

Sanved Kolekar

7:30 PM