



# Sixteenth Marcel Grossmann Meeting

## Monday, July 5, 2021

### Quantum Fields: Block 1 (4:30 PM - 7:30 PM)

-Conveners: Andrei Lebed

time	[id] title	presenter
4:30 P	[M1] Breakdown of the Equivalence Principle for a composite quantum body	Prof. LEBED, Andrei
4:50 P	[M17] Hydrodynamic representation for fermion particles in curved space-times.	GALLEGOS, Omar
5:10 P	[M59] Extended DeWitt-Schwinger subtraction scheme, heavy fields and decoupling	FERREIRO, Antonio
5:30 P	[M78] Chiral vortical effect for free fermions on anti-de Sitter space	AMBRUS, Victor E.
5:50 P	[M05] Renormalization, running couplings and decoupling for the Yukawa model in curved spacetime	Mr NADAL-GISBERT, Sergi
6:10 P	[M88] Black hole induced false vacuum decay from first principles	SHKERIN, Andrey
6:30 P	[M82] Evaporation of four-dimensional dynamical black holes sourced by the quantum trace anomaly	MEDA, Paolo

# Thursday, July 8, 2021

## Quantum Fields: Block 2 (4:30 PM - 7:30 PM)

-Conveners: Andrei Lebed

time	[id] title	presenter
4:30 P	[M41] Stress energy correlator in de Sitter space-time : its conformal masking or growth in connected Friedmann universes	Mr DHANUKA, Ankit
4:50 P	[M65] Interior of Typical Black Holes	Dr YOKOKURA, Yuki
5:10 P	[M69] Ultracompact stars in semiclassical gravity	ARRECHEA, Julio
5:30 P	[M15] GENERALIZED HEISENBERG UNCERTAINTY PRINCIPLE IN QUANTUM GEOMETRODYNAMICS AND GENERAL RELATIVITY	BECKWITH, Andrew
5:50 P	[M09] Einstein anomaly with tensors of odd order in six dimensional curved space	YAMAMOTO, Kohei
6:10 P	[M38] Causal measurements of quantum fields with local probes	RUEP, Maximilian Heinz
6:30 P	[M97] Thermalization of harmonic oscillator Unruh-DeWitt detectors	
6:50 P	[M48] Quantum memory and BMS symmetries	KOLEKAR, Sanved