



# Seventeenth Marcel Grossmann Meeting

## Tuesday, 9 July 2024

### Quantum gravity phenomenology: Tuesday block 1 - Flaiano (15:00 - 16:30)

-Conveners: Giulia Gubitosi; Giovanni Amelino-Camelia

time	[id] title	presenter
15:00	[517] quantum mechanics relativity and gravity	AMELINO-CAMELIA, Giovanni
15:25	[73] Quantum gravity effects in spacetimes with a fundamental length scale	TEE, Philip
15:45	[510] Constraints on quantum spacetime-induced decoherence from neutrino oscillations	D'ESPOSITO, Vittorio
16:00	[30] The role of gravitational energy in the quantum gravity phenomenology	LIŠKA, Marek
16:15	[25] Distinguishing Jordan and Einstein frames in gravity through entanglement	CHAKRABORTY, Sumanta

### Quantum gravity phenomenology: Tuesday block 2 - Flaiano (17:00 - 18:30)

-Conveners: Giulia Gubitosi; Giovanni Amelino-Camelia

time	[id] title	presenter
17:00	[552] Planck-scale effects in the propagation of high-energy particles from astrophysical sources	GUBITOSI, Giulia
17:25	[371] Scalar Perturbations of Regular Black Holes from Non-Singular Collapse Models in Asymptotic Safety	SPINA, Andrea
17:40	[545] A classical field treatment of gravitational fluctuation forces: From the space-time foam to neutron star merger interactions	PINTO, Fabrizio
17:55	[110] The Physics on a Gravitational Wave Background	Dr ESCOBAR-AGUILAR, Eric S.
18:10	[662] The effects of quantum spin-connection foam in the Solar system, galaxies, and the Universe	KANATCHIKOV, Igor