



# 59. Winter School of Theoretical Physics and third COST Action CA18108 Training School "Gravity -- Classical, Quantum and Phenomenology"

## Monday 13 February 2023

### Students' talks (16:30 - 17:30)

time	[id] title	presenter
16:30	[3] Probing gravitational theories via primordial black holes	TZEREFOS, Charalampos
16:50	[5] Coupling metric-affine gravity to a Higgs-like scalar field	RIGOUZZO, Claire
17:10	[4] A generalization of Einstein's quadrupole formula for radiated energy in de Sitter spacetime	DOBKOWSKI-RYŁKO, Denis

### Students' talks (18:00 - 19:00)

time	[id] title	presenter
18:00	[6] Massless Dirac Perturbations in a Consistent Model of Loop Quantum Gravity Black Holes: Quasinormal Modes and Greybody factor	SOARES DE ALBUQUERQUE FILHO, Saulo
18:20	[7] Fundamental decoherence from quantum spacetime	D'ESPOSITO, Vittorio

## Tuesday 14 February 2023

### Students' talks (11:30 - 13:30)

time	[id] title	presenter
11:30	[9] Determinism at a black hole singularity	ADAMO, Martina
11:50	[10] Quantum correction to black hole entropy	POŽAR, Filip
12:10	[11] Entanglement entropy and the emergence of an arrow of time in the early universe	TYAGI, Mritunjay
12:30	[12] Rainbow Oppenheimer-Snyder collapse and the entanglement entropy production	BOBULA, Michał
12:50	[13] The time problem and primordial perturbations	BOLDRIN, Alice
13:10	[14] Prescriptions and analytic control over quantum dynamics in loop quantum cosmology	KOWALCZYK, Maciej

# Wednesday 15 February 2023

## Students' talks (15:00 - 16:00)

time	[id] title	presenter
15:00	[16] Quasinormal modes in teleparallel gravity	KARANASOU, Vasiliki
15:20	[15] Energy and entropy in the Geometrical Trinity of gravity	AGUIAR GOMES, Débora
15:40	[8] 5D Chern-Simons Gravity, RS Braneworld and Holography	DJORDJEVIC, Dusan

## Students' talks (16:30 - 17:30)

time	[id] title	presenter
16:30	[18] Quantum Euler angles and agency-dependent spacetime	FRATTULILLO, Domenico
16:50	[19] $\theta$ -angle physics of two color QCD: fixed baryon charge and near conformal dynamics	D'ALISE, Alessandra
17:10	[20] Solving constraints using quantum computers	CZELUSTA, Grzegorz

# Saturday 18 February 2023

## Students' talks (15:00 - 16:00)

time	[id] title	presenter
15:00	[21] Study of Universe Transparency in an LIV Framework	RESCIC, Filip
15:20	[22] LIV search with the Crab Pulsar	CAMPOY ORDAZ, Anna
15:40	[23] Atom interferometry and small-scale tests of general relativity	MYSZKOWSKI, Mikolaj

## Students' talks (16:30 - 17:50)

time	[id] title	presenter
16:30	[24] Noncommutative gravity using twists	HERCEG, Nikola
16:50	[25] $k$ -Braided noncommutative field theory	DI LUCA, Maria Grazia
17:10	[26] Total momentum and other Noether charges for particles interacting in a quantum spacetime	FABIANO, Giuseppe
17:30	[27] $\kappa$ -deformed complex fields, (discrete) symmetries, and charges	BEVILACQUA, Andrea