



SPACE DAY

II Workshop of the PhD program in
Cosmology, Space Science & Space Technology

20th December 2022

10:30 – 16:00

LOC: *F. Bajardi, M. Benetti, D. Blixt,
S. Capozziello, R. D'Agostino, V. De Falco*

Aula 1 – Third Floor
Scuola Superiore Meridionale (SSM)
Largo San Marcellino 10
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PROGRAM

20th December 2022

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SSM -Largo San Marcellino 10, 80138 Napoli (Italy)

Zoom link: <https://us02web.zoom.us/j/89135293947?pwd=N0QxblhWQzRyZjBFUCtUdDFVUEJsQT09>

Time	Speaker	PhD cycle	Title	Chair
10:30			Opening Session	S. Capozziello
10:45	Mariam Abdelaziz	XXXVIII	<i>Cosmological implications of tensor-induced scalar perturbations</i>	F. Bajardi
11:00	Andrea Boccia	XXXVIII	<i>Cosmological Probes of Fundamental Physics</i>	
11:15	Filippo Bouché	XXXVIII	<i>Automated search for non-standard signatures in cosmology</i>	
11:30	Break			
11:45	Simone Cepollaro	XXXVIII	<i>Emergent geometry: quantum spacetime and Entanglement</i>	
12:00	Laura Cerbone	XXXVIII	<i>ASTRO-QCT: Spectral quantitative CT for onboard ISS spaceflight assessment of bone density losses in astronauts</i>	
12:15	Carmen Ferrara	XXXVIII	<i>Equivalent theories of gravity: Bianchi identities and the role of the equivalence principle</i>	
12:30	Giuseppe Meluccio	XXXVIII	<i>Nonlocal gravity and bridge between quantum and classical worlds</i>	
12:45	Lunch Break			
14:00	Manuel Del Piano	XXXVII	<i>Effective metric for static spherically symmetric Quantum Black Holes</i>	
14:15	Emanuela Gaglio	XXXVII	<i>Aerothermodynamic and optimal control assessment of a deployable re-entry system</i>	
14:30	Tobia Armando La Marca	XXXVII	<i>Aerocapture and de-orbiting of spacecrafts with flexible appendages</i>	
14:45	Alessio Lapponi	XXXVII	<i>Information transmission affected by a dynamical spacetime</i>	
15:00	Break			
15:30	Nicola Menadeo	XXXVII	<i>Probing Early Universe with Gravitational Waves</i>	
15:45	Davide Usseglio	XXXVII	<i>Perturbation theory from mathematics to physics</i>	
16:00			Closing remarks	S. Capozziello