

SPACE day 2026

23 June 2026, Via Mezzocannone 4 (Room 2, first floor)

SPACE day 2026 is a one-day workshop organized by the SPACE PhD program of the Scuola Superiore Meridionale (SSM), bringing together first- and final-year PhD students to present their research projects. The event aims to foster interdisciplinary discussion, encourage new collaborations within SSM, and strengthen a shared sense of community and scientific identity. Join us for a day of scientific exchange and discover the research projects shaping the future of SSM. The full schedule is available below.

When: 23 June 2026, 10:00 to 16:30

Where: Via Mezzocannone 4 (Room 2, first floor)

Check out the book of abstracts on our website: <https://indico.global/event/17961/>

	10:00	Salvatore Capozziello	Welcome speech
Aerospace Engineering and Applied Physics Chairs: Filippo Bouchè Paola Simone	10:10	Virginia Cardillo	Next-generation Lunar Laser Ranging: Sub-millimeter Precision For PNT Infrastructure And Fundamental Physics
	10:30	Laura A. Cerbone	Prototyping DXA4A: First Proof-of-concept For Bone Densitometry With Timepix Detectors
	10:50	Mauro Fioravanti	Sequential Data Processing For Lunar Laser Ranging Tests Of Gravity
	11:10	Francesca Scrivano	Exploring Dark Matter With The LHC
	11:30	Coffee Break (20 min)	
Astrophysics and Cosmology Chairs: Laura A. Cerbone Mauro Fioravanti	11:50	Andrea Boccia	Asteroid-mass Primordial Black Holes From Supersymmetry
	12:10	Filippo Bouchè	Higher-order Statistics In Euclid: Towards The Analysis Of The DR1 Weak Lensing Data
	12:30	Amedeo Gaudio	The Diversity Of Planetary Systems And The Search For Earth-like Worlds With PLATO
	12:50	Chiara Niccolai	Quasars As Standard Candles: Extending The Hubble Diagram
	13:10	Mariam Abdelaziz	Can Primordial Gravitational Waves Leave A Trace In Galaxy Clustering?
	13:30	Lunch (50 min)	
Theoretical Physics Chairs: Laura A. Cerbone Mauro Fioravanti	14:20	Simone Cepollaro	Stabilizer Entropy In Subspaces, Gauge Theories, And Spacetime Geometry
	14:40	Carmen Ferrara	Primary Constraints Of Newer General Relativity
	15:00	Andrea Iacobellis	Decay, Stability, And Cosmological Effects Of Oscillons
	15:20	Giuseppe Meluccio	On The Emergence Of Gravity From A Pre-geometric Spacetime
	15:40	Paola Simone	Hawking Radiation As A Probe Of Physics Beyond The Standard Model
	16:00	Final remarks and farewell	

Lunch will be provided by the organizers. Please contact the organizing committee to let us know about any dietary restrictions, allergies, or intolerances. Scan the QR code to let us know if you'll join!

The organizing committee:

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Mauro Fioravanti, Paola Simone

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SPACE
Cosmology, Space Science & Space Technology