

SPACE DAY - PROGRAM

Zoom Link: <https://us02web.zoom.us/j/89135293947?pwd=NOQxbHhWQzRyZjBFUctUdDFVUEJsQT09>

9:30 – 10.00 Settings and Intro by Prof. Capozziello

10.00 – 11.00 Space Science and Technology

Emanuela Gaglio – *Deployable Systems for Atmospheric Controlled Re-Entry*

Tobia Armando La Marca – *Aerospace Guidance&Navigation: a (very) quick overview*

Dario Pisanti – *Technology and Science Tasks for the Lunar Crater Radio Telescope*

Q&A Session

11.00 – 12.00 Quantum Gravity and Particle Physics

Ninetta Saviano – *Cosmic laboratories for particle physics*

Francesco Bajardi – *Foundations and symmetries in classical and quantum gravity, with applications to cosmology and astrophysics*

Maria Grazia Di Luca – *Quantum gravity phenomenology with high energy neutrinos*

Q&A Session

12.00 – 13.00 Black Holes Session

Marcello Miranda - *Cosmological black holes in alternative theories of gravity*

Manuel Del Piano – *The Effective Theory of Quantum Black Holes*

Alessio Lapponi – *Black hole-mirror's radiation analogy*

Q&A Session

13.00 – 14.30 Lunch Break

14.30 – 15.30 Cosmographic approach to Dark Energy

Micol Benetti – *Exploring General Relativity and Extended Gravity Theory by Cosmography and Cosmological Data*

Rocco D'Agostino – *Testing gravity with cosmography*

Giada Bargiacchi - *Cosmography and cosmological analysis with new distance indicators*

Q&A Session

15.30 – 17.00 Gravitational Theories

Davide Usseglio - *Fundamental Aspects of Gravitational Theories*

Nicola Menadeo – *WdW Approach to Quantum Cosmology / Extended Theories of Gravity*

Vittorio De Falco – *Probe gravity via Multimessenger Relativistic Astrophysics*

Matteo Califano – *Gravitational Waves Cosmology: the role of Einstein Telescope*

Q&A Session

17.00 – 17.15 Final remarks