

Presentation of elective courses

Master in Astrophysics and Cosmology

Friday, November 21st 2025, Sala Sollima (IV floor INAF-OAS)

[Zoom link](#)

- 9:30-9:40 *Intro* – C. Nipoti
- 9:40-9:50 SPACECRAFT SUBSYSTEMS AND SPACE MISSION DESIGN – P. Tortora
- 9:50-10:00 HIGH ENERGY ASTROPHYSICS – M. Brusa
- 10:00-10:10 RESOLVED STELLAR POPULATIONS – B. Lanzoni
- 10:10-10:20 MAGNETIC FIELDS IN ASTROPHYSICS – A. Bonafede
- 10:20-10:30 PRACTICAL STATISTICS FOR PHYSICS AND ASTROPHYSICS – R.B. Metcalf
- 10:30-10:40 GRAVITATIONAL LENSING – R.B. Metcalf

10:40-10:50 *break*

- 10:50-11:00 ASTROPARTICLE PHYSICS – F. Vazza
- 11:00-11:10 ASTROPHYSICS OF GALAXIES – S. Pellegrini
- 11:10-11:20 ASTRONOMICAL INSTRUMENTATION – L. Testi
- 11:20-11:30 EXOPLANETS: FORMATION, POPULATIONS, AND ATMOSPHERES – L. Testi
- 11:30-11:40 GALAXY CLUSTERS – F. Brighenti, M. Gitti
- 11:40-11:50 ADVANCED STELLAR PHYSICS AND ASTEROSEISMOLOGY – A. Miglio
- 11:50-12:00 THE INTERSTELLAR MEDIUM – F. Pozzi

12:00-12:10 *break*

- 12:10-12:20 ASTROPHYSICAL FLUID DYNAMICS – C. Nipoti
- 12:20-12:30 GRAVITATIONAL WAVE ASTROPHYSICS AND COSMOLOGY – M. Moresco, C. Nipoti
- 12:30-12:40 ADVANCED COSMOLOGY – F. Marulli
- 12:40-12:50 HIGH PERFORMANCE COMPUTING FOR ASTROPHYSICS AND COSMOLOGY – M. Baldi
- 12:50-13:00 RELATIVITY – F. Bastianelli
- 13:00-13:10 RADIOASTRONOMY – D. Dallacasa
- 13:10-13:20 MULTIMESSENGER ASTROPHYSICS – S. Dall’Osso