

Exoplanets in Italy: status and perspectives

Report of Contributions

Contribution ID: 1

Type: **not specified**

Protoplanetary Disks and the Dawn of Planets

Wednesday 26 February 2025 10:05 (25 minutes)

Invited talk

Presenter: TESTI, Leonardo (Dipartimento di Fisica e Astronomia, Università di Bologna)

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 2

Type: **not specified**

Orbital architectures of Jupiter-mass exoplanets: the role of planet migration in protoplanetary discs

Wednesday 26 February 2025 10:30 (15 minutes)

Presenter: SCARDONI, Chiara E.

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 3

Type: **not specified**

Evidence of disc instability in the planet forming disc of AB Aur

Wednesday 26 February 2025 10:45 (15 minutes)

Presenter: LODATO, Giuseppe (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 4

Type: **not specified**

Direct imaging of accreting protoplanets

Wednesday 26 February 2025 11:00 (15 minutes)

Presenter: Dr ANTONIUCCI, Simone (INAF - OAR)

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 5

Type: **not specified**

Planet formation with ERIS - report of the INAF ERIS GTO program

Wednesday 26 February 2025 11:15 (15 minutes)

Presenter: FEDELE , Davide (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 6

Type: **not specified**

Planet formation from the Solar System to Exoplanetary System

Wednesday 26 February 2025 11:50 (25 minutes)

Invited talk

Presenter: MORBIDELLI, Alessandro

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 7

Type: **not specified**

Multiple planets perturbations on the dust in a circumstellar disk

Wednesday 26 February 2025 12:15 (15 minutes)

Presenter: MARZARI, Francesco

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 8

Type: **not specified**

Unlocking the Potential of High-Resolution Spectroscopy for Protoplanet Research: Insights from synthetic observations

Wednesday 26 February 2025 12:30 (15 minutes)

Presenter: PENG, Jiacheng

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: 9

Type: **not specified**

Rethinking the proto-planetary disc turbulent paradigm

Wednesday 26 February 2025 12:45 (15 minutes)

Presenter: ROSOTTI, Giovanni

Session Classification: Planet Formation and Observations of Infant Planets

Contribution ID: **10**

Type: **not specified**

Navigating the Outer Planetary Systems: SHARK-NIR's Contributions to Understanding Planet Formation and Evolution

Wednesday 26 February 2025 14:30 (25 minutes)

Invited talk

Presenter: D'ORAZI, Valentina (University of Rome Tor Vergata / INAF OAPd)

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: **11**

Type: **not specified**

Satellites around exoplanets and brown dwarfs

Wednesday 26 February 2025 14:55 (15 minutes)

Presenter: LAZZONI, Cecilia

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 12

Type: **not specified**

Unveiling Planetary System Architectures: Low-Mass Planets Around Sun-like Stars and M Dwarfs

Wednesday 26 February 2025 15:10 (25 minutes)

Invited talk

Presenter: PINAMONTI, Matteo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 13

Type: **not specified**

Validating Gaia astrometric candidates: a deep dive with HARPS-N

Wednesday 26 February 2025 15:35 (15 minutes)

Presenter: BARBATO, Domenico (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 14

Type: **not specified**

Detection and characterization of planetary mass objects using a multi-technique approach

Wednesday 26 February 2025 15:50 (15 minutes)

Presenter: MESA, Dino (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 15

Type: **not specified**

Unveiling the history of the warm Jupiters

Wednesday 26 February 2025 16:05 (15 minutes)

Presenter: CARLEO, Ilaria

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: **16**

Type: **not specified**

Young planetary systems

Wednesday 26 February 2025 16:50 (25 minutes)

Invited talk

Presenter: BENATTI, Serena

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 17

Type: **not specified**

Towards the characterisation of Earth analogues: news from the HARPS-N Collaboration

Wednesday 26 February 2025 17:15 (15 minutes)

Presenter: MALAVOLTA, Luca (Università degli Studi di Padova)

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: **18**

Type: **not specified**

HONEI: the HOt-NEptune Initiative

Wednesday 26 February 2025 17:30 (15 minutes)

Presenter: NAPONIELLO, Luca (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: **19**

Type: **not specified**

The OMEGA Key Project search for microlensing exoplanets

Wednesday 26 February 2025 17:45 (15 minutes)

Presenter: ROTA, Paolo

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 20

Type: **not specified**

Transit Timing Variation analysis in the TESS and CHEOPS era: towards Ariel and PLATO

Wednesday 26 February 2025 18:00 (15 minutes)

Presenter: BORSATO, Luca

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 21

Type: **not specified**

An excess of stellar companions in stars with hot Jupiters

Wednesday 26 February 2025 18:15 (15 minutes)

Presenter: GANDOLFI, Davide

Session Classification: Demographics and Architectures of Planetary Systems

Contribution ID: 22

Type: **not specified**

Genetic links between stars, their circumstellar disks and their planets

Thursday 27 February 2025 09:00 (25 minutes)

Invited talk

Presenter: TURRINI, Diego (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 23

Type: **not specified**

Asteroseismic Constraints on Exoplanet Host Stars: Insights from Current Efforts and Preparatory Work for PLATO

Thursday 27 February 2025 09:25 (15 minutes)

Presenter: MIGLIO, Andrea (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 24

Type: **not specified**

The exoplanet population in the Galactic context from the Ariel sample

Thursday 27 February 2025 09:40 (15 minutes)

Presenter: TSANTAKI, Maria (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 25

Type: **not specified**

Non solar-like stars as a probe for planet formation

Thursday 27 February 2025 09:55 (15 minutes)

Presenter: MALDONADO, Jesus

Session Classification: The Star-Environment-Planet connection

Contribution ID: 26

Type: **not specified**

White dwarfs, dust, disks and debris: exo-rocks compositions and the end of planetary systems

Thursday 27 February 2025 10:10 (15 minutes)

Presenter: GENTILE FUSILLO, Nicola

Session Classification: The Star-Environment-Planet connection

Contribution ID: 27

Type: **not specified**

Star-Planet Interaction

Thursday 27 February 2025 10:55 (25 minutes)

Invited talk

Presenter: LANZA, Antonino Francesco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 28

Type: **not specified**

Close-in non-transiting planets as a key to improving our understanding of star-planet interactions

Thursday 27 February 2025 11:20 (15 minutes)

Presenter: BRETON, Sylvain (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 29

Type: **not specified**

Star-Planet Interactions (SPI): Is planetary inward migration responsible for GJ 504's fast rotation and bright X-ray luminosity? New constraints from eROSITA

Thursday 27 February 2025 11:35 (15 minutes)

Presenter: PEZZOTTI, Camilla (University of Liège)

Session Classification: The Star-Environment-Planet connection

Contribution ID: **30**

Type: **not specified**

Parametric study of star-planet interaction in case of HD209458b

Thursday 27 February 2025 11:50 (15 minutes)

Presenter: IVANOVSKI, Stavro

Session Classification: The Star-Environment-Planet connection

Contribution ID: 31

Type: **not specified**

Can Planetary Wind Form a Circumstellar Disk? Insights from the WASP-12 Hot Jupiter System

Thursday 27 February 2025 12:05 (15 minutes)

Presenter: COLOMBO , Salvatore (Istituto Nazionale di Astrofisica (INAF))

Session Classification: The Star-Environment-Planet connection

Contribution ID: 32

Type: **not specified**

Evaporation of close-in planets

Thursday 27 February 2025 12:20 (25 minutes)

Invited talk

Presenter: GUILLUY, Gloria (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 33

Type: **not specified**

How long a planetary atmosphere could resist to the action of stellar wind?

Thursday 27 February 2025 12:45 (15 minutes)

Presenter: DI MAURO, Maria Pia

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 34

Type: **not specified**

Planetary Atmospheres from Low and High Dispersion Spectroscopy

Thursday 27 February 2025 14:30 (25 minutes)

Invited talk

Presenter: BORSA, Francesco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 35

Type: **not specified**

Retrieving the Atmospheres of Distant Worlds: Insights from High-Resolution Spectroscopy

Thursday 27 February 2025 14:55 (15 minutes)

Presenter: GIACOBBE, Paolo

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 36

Type: **not specified**

High dispersion optical phase curves of ultra-hot Jupiters with SHINE ON

Thursday 27 February 2025 15:10 (15 minutes)

Presenter: PINO, Lorenzo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 37

Type: **not specified**

Single line analysis: a powerful tool to probe exoplanetary atmospheres

Thursday 27 February 2025 15:25 (15 minutes)

Presenter: D'ARPA, Mattia Claudio (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: **38**

Type: **not specified**

Atmospheric characterization of Exoplanets with CHEOPS

Thursday 27 February 2025 15:40 (15 minutes)

Presenter: SINGH, Vikash (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 39

Type: **not specified**

Modelling Exoplanetary Atmospheres undergoing Atmospheric Escape Mechanisms

Thursday 27 February 2025 15:55 (15 minutes)

Presenter: BIASSONI, Federico

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 40

Type: **not specified**

Exo-climates and habitability of rocky planets: modelling tools and systematic studies for future instruments

Thursday 27 February 2025 16:40 (15 minutes)

Presenter: SILVA, Laura

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 41

Type: **not specified**

Constraining exoplanetary clouds with Jupiter Observations: Insights from Juno & JWST

Thursday 27 February 2025 16:55 (15 minutes)

Presenter: BIAGIOTTI, Francesco

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 42

Type: **not specified**

ASTERIA: Adaptability of cyanobacteria from extreme environments to stellar UV radiation

Thursday 27 February 2025 17:10 (15 minutes)

Presenter: BILLI, Daniela

Session Classification: Atmospheric Characterization of Exoplanets

Contribution ID: 43

Type: **not specified**

Engaging the public with exoplanets: the INAF perspective

Thursday 27 February 2025 17:25 (15 minutes)

Presenter: MIGNONE, Claudia (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Outreach, education and training

Contribution ID: 44

Type: **not specified**

Round table on the Perspectives for the training of young researchers in exoplanetary sciences

Thursday 27 February 2025 17:40 (50 minutes)

Session Classification: Outreach, education and training

Contribution ID: 45

Type: **not specified**

PLATO: an ESA mission to discover transiting habitable Earths around solar-type stars

Friday 28 February 2025 09:00 (25 minutes)

Invited talk

Presenter: NASCIMBENI, Valerio (INAF-OAPD)

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 46

Type: **not specified**

Ariel

Friday 28 February 2025 09:25 (25 minutes)

Invited talk

Presenter: TINETTI, Giovanna

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 47

Type: **not specified**

The Roman Galactic Exoplanet Survey: demographics beyond the snow line with microlensing

Friday 28 February 2025 09:50 (15 minutes)

Presenter: BOZZA, Valerio (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 48

Type: **not specified**

HWO and LIFE: future space telescopes to look for life in the universe

Friday 28 February 2025 10:05 (25 minutes)

Invited talk

Presenter: ALEI, Eleonora

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 49

Type: **not specified**

A look to the future: the HWO mission

Friday 28 February 2025 10:30 (15 minutes)

Presenter: FONTANA, Adriano (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 50

Type: **not specified**

Pushing the Limits of space-based Astrometry: Technological Advances and Technical challenges

Friday 28 February 2025 11:15 (15 minutes)

Presenter: BUSONERO, Deborah (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 51

Type: **not specified**

ANDES the High-Resolution Spectrograph for the ELT - Overview, Future Developments, and Science Objectives

Friday 28 February 2025 11:30 (25 minutes)

Invited talk

Presenters: MARCONI, Alessandro (Dipartimento di Fisica e Astronomia, Università di Firenze); DI MARCANTONIO, Paolo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 52

Type: **not specified**

Improving the SPHERE's Extreme Adaptive Optics correction with SAXO+

Friday 28 February 2025 11:55 (15 minutes)

Presenter: SCHREIBER, Laura (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 53

Type: **not specified**

The Planetary Camera and Spectrograph (PCS) for the ELT

Friday 28 February 2025 12:10 (15 minutes)

Presenter: GRATTON, Raffaele

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 54

Type: **not specified**

The Sardinia Radio Telescope in the Breakthrough Listen Program and synergies with the science of exoplanets

Friday 28 February 2025 12:25 (15 minutes)

Presenter: MELIS, Andrea (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 55

Type: **not specified**

The role of the TNG in the exoplanetary science of the next future

Friday 28 February 2025 12:40 (15 minutes)

Presenter: GHEDINA, Adriano (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Future Instruments and Technologies for Exoplanet Science

Contribution ID: 56

Type: **not specified**

GAPS

Friday 28 February 2025 14:30 (15 minutes)

Presenter: MICELA, Giusi

Session Classification: Perspectives for Exoplanets Science in Italy

Contribution ID: 57

Type: **not specified**

Meet the JEDI collaboration - JEtS and Disk @ INAF

Friday 28 February 2025 14:45 (15 minutes)

Presenter: BACCIOTTI, Francesca

Session Classification: Perspectives for Exoplanets Science in Italy

Contribution ID: 58

Type: **not specified**

Round-table on the Perspectives for Exoplanets Science in Italy

Friday 28 February 2025 15:00 (1h 30m)

Session Classification: Perspectives for Exoplanets Science in Italy