

23rd GAPS Meeting

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Board Updates

Tuesday 28 October 2025 09:10 (15 minutes)

Presenter: BENATTI, Serena

Session Classification: General themes

Contribution ID: 2

Type: **not specified**

Updates on GAPS papers

Tuesday 28 October 2025 09:25 (15 minutes)

Presenter: BIAZZO, Katia

Session Classification: General themes

Contribution ID: 3

Type: **not specified**

Welcome

Tuesday 28 October 2025 09:00 (5 minutes)

Welcome - Dott.ssa Maria Elisabetta Palumbo (Direttrice INAF-OACT)

Presenter: PALUMBO, Maria Elisabetta

Session Classification: General themes

Contribution ID: 4

Type: **not specified**

Report junior

Tuesday 28 October 2025 09:40 (10 minutes)

Presenter: DI MAIO, Claudia

Session Classification: General themes

Contribution ID: 5

Type: **not specified**

The NOCTIS project and its role in studying exoplanets

Tuesday 28 October 2025 09:50 (15 minutes)

Presenter: BASILICATA, Mario

Session Classification: General themes

Contribution ID: 6

Type: **not specified**

GAPS in support of Ariel: stellar obliquity and constraints on planet migration

Tuesday 28 October 2025 10:15 (15 minutes)

Presenter: BOCCHIERI, Andrea

Session Classification: General themes

Contribution ID: 7

Type: **not specified**

Status of the program

Tuesday 28 October 2025 11:00 (20 minutes)

Presenters: BONOMO, Aldo S.; BORSA, Francesco

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 8

Type: **not specified**

Stellar Abundance Ratios as diagnostics for Exoplanet Characterization

Tuesday 28 October 2025 11:20 (15 minutes)

Presenters: BIAZZO, Katia; BARATELLA, Martina

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 9

Type: **not specified**

The never ending story between Giano-b and HD209458b

Tuesday 28 October 2025 11:35 (15 minutes)

Presenter: GIACOBBE, Paolo

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: **10**

Type: **not specified**

Linking disequilibrium chemistry models and observations for HD 209458 b

Tuesday 28 October 2025 11:50 (20 minutes)

Presenter: DE AZEVEDO SILVA, Tomas

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 11

Type: **not specified**

Multi-instrument atmospheric characterization of the warm super-Neptune WASP-107 b using GUIBRUSH

Tuesday 28 October 2025 12:10 (15 minutes)

Presenter: AMADORI, Francesco

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 12

Type: **not specified**

Updates on the first investigation of the atmosphere of WASP-13 b with GIARPS

Tuesday 28 October 2025 12:25 (20 minutes)

Presenters: SICILIA, Daniela; BASILICATA, Mario

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 13

Type: **not specified**

Beyond LTE: Probing the Extreme Atmosphere of KELT-9 b

Tuesday 28 October 2025 12:45 (15 minutes)

Presenter: DI PAOLA, Alessia

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 14

Type: **not specified**

Disentangling Planetary and Aliasing Signals in the CCF Analysis of KELT-20b/MASCARA-2b

Tuesday 28 October 2025 14:00 (15 minutes)

Presenter: BIASSONI, Federico

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 15

Type: **not specified**

Updates on V1298 Tau b

Tuesday 28 October 2025 14:15 (15 minutes)

Presenter: GUILLUY, Gloria

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: **16**

Type: **not specified**

Discussion

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 17

Type: **not specified**

HARPS-N Updates

Tuesday 28 October 2025 14:45 (15 minutes)

Presenter: COSENTINO, Rosario

Session Classification: Instrumentation

Contribution ID: **18**

Type: **not specified**

GIANO-B/GIARPS updates

Tuesday 28 October 2025 15:00 (15 minutes)

Presenter: HARUTYUNYAN, Avet

Session Classification: Instrumentation

Contribution ID: **19**

Type: **not specified**

LOCNES

Tuesday 28 October 2025 15:15 (15 minutes)

Presenter: CLAUDI, Riccardo

Session Classification: Instrumentation

Contribution ID: **20**

Type: **not specified**

Status of the Observations

Tuesday 28 October 2025 15:30 (15 minutes)

Presenter: CLAUDI, Riccardo

Session Classification: Instrumentation

Contribution ID: 21

Type: **not specified**

RV jitter in the whole GAPS sample

Tuesday 28 October 2025 15:45 (15 minutes)

Presenter: CLAUDI, Riccardo

Session Classification: Instrumentation

Contribution ID: **22**

Type: **not specified**

Status of the program

Wednesday 29 October 2025 09:00 (15 minutes)

Presenter: DESIDERA, Silvano

Session Classification: Young Objects

Contribution ID: 23

Type: **not specified**

Updates on V1298 Tau

Wednesday 29 October 2025 09:15 (15 minutes)

Presenters: DAMASSO, Mario; LEONARDI, Pietro

Session Classification: Young Objects

Contribution ID: 24

Type: **not specified**

HARPS+NIRPS observations of DS Tuc

Wednesday 29 October 2025 09:30 (15 minutes)

Presenter: DAMASSO, Mario

Session Classification: Young Objects

Contribution ID: 25

Type: **not specified**

PASTAR: Spot Modeling with Photometric Data

Wednesday 29 October 2025 09:45 (15 minutes)

Presenter: PETRALIA, Antonino

Session Classification: Young Objects

Contribution ID: 26

Type: **not specified**

Activity indicators from Ariel spectra through PASTAR grid

Wednesday 29 October 2025 10:00 (15 minutes)

Presenter: DI MAIO, Claudia

Session Classification: Young Objects

Contribution ID: 27

Type: **not specified**

Discussion

Wednesday 29 October 2025 10:15 (15 minutes)

Session Classification: Young Objects

Contribution ID: **28**

Type: **not specified**

Status of the program

Wednesday 29 October 2025 11:00 (30 minutes)

Presenter: BENATTI, Serena

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: 29

Type: **not specified**

Status of AMS18

Wednesday 29 October 2025 11:30 (15 minutes)

Presenter: FARDELLA, Valerio

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: **30**

Type: **not specified**

Status of AMS20

Wednesday 29 October 2025 11:45 (15 minutes)

Presenter: DI MAIO, Claudia

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: **31**

Type: **not specified**

Status of YO46

Wednesday 29 October 2025 12:00 (15 minutes)

Presenter: DAMASSO, Mario

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: 32

Type: **not specified**

Vetting of TESS candidates for Ariel

Wednesday 29 October 2025 12:30 (15 minutes)

Presenter: PICCININI, Giulia

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: 33

Type: **not specified**

Principal component analysis to correct TESS systematics

Wednesday 29 October 2025 12:15 (15 minutes)

Presenter: PETRALIA, Antonino

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: **34**

Type: **not specified**

Discussion

Wednesday 29 October 2025 12:45 (15 minutes)

Session Classification: Ariel Masses Survey (ArMS):

Contribution ID: 35

Type: **not specified**

GFU Program Status

Wednesday 29 October 2025 14:00 (15 minutes)

Presenter: SOZZETTI, Alessandro

Session Classification: Gaia Follow up

Contribution ID: 36

Type: **not specified**

Specific Systems: GFU02

Wednesday 29 October 2025 14:15 (10 minutes)

Presenter: PICCININI, Giulia

Session Classification: Gaia Follow up

Contribution ID: 37

Type: **not specified**

Specific Systems: GFU07

Wednesday 29 October 2025 14:25 (10 minutes)

Presenter: RUGGIERI, Alessandro

Session Classification: Gaia Follow up

Contribution ID: **38**

Type: **not specified**

Specific Systems: GFU08

Wednesday 29 October 2025 14:35 (10 minutes)

Presenter: PINAMONTI, Matteo

Session Classification: Gaia Follow up

Contribution ID: **39**

Type: **not specified**

Specific Systems: GFU25

Wednesday 29 October 2025 14:45 (10 minutes)

Presenter: DAMASSO, Mario

Session Classification: Gaia Follow up

Contribution ID: 40

Type: **not specified**

Detection completeness and follow-up potential of Gaia DR3 confirmed substellar companions

Wednesday 29 October 2025 14:55 (10 minutes)

Presenter: BARBATO, Domenico

Session Classification: Gaia Follow up

Contribution ID: 41

Type: **not specified**

Gaia DR3 substellar companions around nearby M dwarfs: completeness and reliability in the 100pc sample

Wednesday 29 October 2025 15:05 (10 minutes)

Presenter: PINAMONTI, Matteo

Session Classification: Gaia Follow up

Contribution ID: 42

Type: **not specified**

New Gaia candidates follow-up: Some considerations

Wednesday 29 October 2025 15:15 (10 minutes)

Presenter: SOZZETTI, Alessandro

Session Classification: Gaia Follow up

Contribution ID: 43

Type: **not specified**

Discussion

Wednesday 29 October 2025 15:25 (5 minutes)

Session Classification: Gaia Follow up

Contribution ID: 44

Type: **not specified**

Discussion

Session Classification: ATMOSPHERES/BRIDGES

Contribution ID: 45

Type: **not specified**

Status of the HONEI and SO programs

Wednesday 29 October 2025 16:00 (25 minutes)

Presenter: NAPONIELLO, Luca

Session Classification: Neptunian planets

Contribution ID: 46

Type: **not specified**

TOI-5789: A multiplanet and mutually inclined system

Wednesday 29 October 2025 16:25 (20 minutes)

Presenter: BONOMO, Aldo S.

Session Classification: Neptunian planets

Contribution ID: 47

Type: **not specified**

Discussion

Wednesday 29 October 2025 16:45 (30 minutes)

Session Classification: Neptunian planets

Contribution ID: 48

Type: **not specified**

Proposal for AOT53: Probing systems with meaningful TTVs

Thursday 30 October 2025 09:00 (20 minutes)

Presenter: NAPONIELLO, Luca

Session Classification: General themes

Contribution ID: 49

Type: **not specified**

Feedback on TNG observations

Thursday 30 October 2025 09:20 (15 minutes)

Presenter: COSENTINO, Rosario

Session Classification: General themes

Contribution ID: 50

Type: **not specified**

Attività UTG-A

Thursday 30 October 2025 09:45 (10 minutes)

Presenter: MICELA, Giusi

Session Classification: General themes

Contribution ID: 51

Type: **not specified**

Bandi di Astrofisica di Frontiera

Thursday 30 October 2025 09:55 (35 minutes)

Session Classification: General themes

Contribution ID: 52

Type: **not specified**

Bandi di Astrofisica di Frontiera (cont.) & Next activities of the Exoplanets community

Thursday 30 October 2025 11:00 (2 hours)

Session Classification: General themes

Contribution ID: 53

Type: **not specified**

Software introduction

Monday 27 October 2025 09:30 (10 minutes)

Presenter: GIACOBBE, Paolo

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 54

Type: **not specified**

Working environment and hands-on program of the day

Monday 27 October 2025 09:40 (10 minutes)

Presenter: AMADORI, Francesco

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 55

Type: **not specified**

Software installation and initialization procedures

Monday 27 October 2025 09:50 (1 hour)

Presenter: AMADORI, Francesco

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 56

Type: **not specified**

Data reduction and calibration GIANO (from archive to GUIBRUSH) & Tellurics removal

Monday 27 October 2025 11:00 (1 hour)

Presenters: AMADORI, Francesco; GIACOBBE, Paolo

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 57

Type: **not specified**

Introduction of forward modeling for CC

Monday 27 October 2025 14:00 (10 minutes)

Presenter: GIACOBBE, Paolo

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 58

Type: **not specified**

Forward Modelling & Cross Correlation Technique

Monday 27 October 2025 14:10 (1 hour)

Presenters: AMADORI, Francesco; GIACOBBE, Paolo

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: 59

Type: **not specified**

Introduction of forward modeling for retrievals

Monday 27 October 2025 15:20 (10 minutes)

Presenter: GIACOBBE, Paolo

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: **60**

Type: **not specified**

High and low resolution retrieval

Monday 27 October 2025 15:30 (1 hour)

Session Classification: GUI-BRUSH: Hands-on session

Contribution ID: **61**

Type: **not specified**

Updates from TNG

Tuesday 28 October 2025 14:30 (15 minutes)

Presenter: GHEDINA, Adriano

Session Classification: Instrumentation

Contribution ID: 62

Type: **not specified**

Celebrating the 30th anniversary of the first exoplanet discovered

Tuesday 28 October 2025 10:05 (10 minutes)

Presenter: SICILIA, Daniela

Session Classification: General themes

Contribution ID: **63**

Type: **not specified**

Welcome

Tuesday 28 October 2025 09:05 (5 minutes)

Saluti Istituzionali da parte della Direzione Scientifica (Dr. I. Pagano)

Presenter: PAGANO, Isabella

Session Classification: General themes

Contribution ID: **64**

Type: **not specified**

Discussion

Thursday 30 October 2025 09:35 (10 minutes)

Session Classification: General themes