



MONDELLO WORKSHOP 2026

June 15-20, Mondello (Palermo), Italy

Frontier Research in Astrophysics - V



TENTATIVE FINAL PROGRAM (16th May 2026)

Sunday 14 Afternoon

15.30 REGISTRATION OF PARTICIPANTS

19.00 END OF REGISTRATION

19.30 WELCOME COCKTAIL PARTY

20.00 DINNER

Monday 15 Morning

07.30 REGISTRATION OF PARTICIPANTS

08.20 END OF REGISTRATION

08.25 BEGINNING of the WORKSHOP

08.25 Franco GIOVANNELLI Welcome Address

OPENING REMARKS

Chairperson: PAUL MASON

08.30 Franco GIOVANNELLI The wondrous journey to unravel the mysteries of the Universe

09.00 Gennady BISNOVATYI-KOGAN The Very Early Universe

09.30 Vladimir LIPUNOV Global Master Net's contribution to verifying Scenario Machine's

10.00 Eleonora FIORELLINO Understanding stellar and planet formation - A Review

10.30 Coffee Break

Organized by:

INAF – Istituto di Astrofisica e Planetologia Spaziali, Roma, Italy; INTA – Departamento de Cargas Útiles y Ciencias del Espacio, Madrid, Spain; INAF – Osservatorio Astronomico di Padova, Italy; RAS – Institute of Astronomy, Moscow, Russia; ASCR – Astronomical Institute, Ondrejov & Prague Technical University, Czech Republic;

St. John's College, Annapolis, MD, USA; IAC (Instituto de Astrofísica de Canarias), Tenerife, Spain; New Mexico State University, NM, USA; IAA, Universität Tübingen, Germany; CNR-IASI (Istituto di Analisi dei Sistemi ed Informatica), Roma, Italy; Dipartimento di Fisica, Università di Pisa, Italy; Fudan University, Shanghai, China

Monday 15 Morning

OPENING REMARKS

Chairperson: GENNADY BISNOVATYI-KOGAN

11.00	Carlotta PITTORI	The AGILE space mission – Highlights and Legacy in the Era of PeVatron Astronomy
11.30	Borja ANGUIANO	J-ATLAS: Javalambre Andromeda and Triangulum Legacy Astrophysical Survey
12.00	Elena ARBUZOVA	Solving the Primordial ${}^7\text{Li}$ Deficit via Primordial Black Hole Evaporation
12.20	Umberto BATTINO	Trans-Fe elements from type Ia supernovae I. Heavy element nucleosynthesis during the formation of near-Chandrasekhar WDs
12.40	Philipp FRANK	Geometric Variational Inference

13.00 **I N T E R V A L**

Monday 15 Afternoon

OPENING REMARKS

Chairperson: CARLOTTA PITTORI

17.00	Alexandre VAZDEKIS	Why the Northern Hemisphere Needs a 30-40m Telescope and the Science at Stake
17.30	Alessio TURCHI	Survey of Survey spectroscopic catalog with machine learning parameters. Exploiting large datasets to increase accuracy.
17.50	René HUDEC	ML based analyses of digitized astronomical plates for modern astrophysics

18.10 **END OF THE SESSION**

GRAVITATIONAL WAVES

Chairperson: VLADIMIR LIPUNOV

18.10	Rosa POGGIANI	Gravitational Wave – A Review
18.40	Dorota GONDEK-ROSINSKA	News from Gravitational Wave Astronomy
19.10	Rosa POGGIANI	Gravitational Wave and Dark Matter detection with Very Long Baseline Atom Interferometers

19.40 **END OF THE SESSION**

I N T E R V A L

Monday 15 Night

22.00 **V I O L I N C O N C E R T**
by
Alessandro Perpich and Isabella Perpich

23.00 **I N T E R V A L**

Tuesday 16 Night

22.00 E T R U S C A N W I N E P A R T Y

24.00 I N T E R V A L

Wednesday 17 Morning

Postponed talk of the COSMOLOGY Session

Chairperson: ALEXANDER DOLGOV

08.30 Ciriaco GODDI VAPOLA - A multi-epoch multi-band survey of
AGN at (sub)mm-wavelengths with ALMA
09.00 Cosimo BAMBI Probing the strong gravity region of black
holes with eXTP

09.30 End of the postpone talk

HIGH ENERGY ASTROPHYSICS

09.30 Antonella TARANA From spectra to geometry: two decades of
progress in Low-Mass X-ray Binaries
10.00 Clara DEHMAN Magnetars - A Review

10.30 O F F I C I A L P H O T O

Coffee Break

Chairperson: COSIMO BAMBI

11.10 Andrzej ZDZIARSKI Spins of Black Holes in X-ray Binaries
11.40 Ingyin ZAW Intermediate Mass Black Holes - A Review
12.10 Rubén SANCHEZ-RAMIREZ Optical Follow-Up Observations of Einstein
Probe X-Ray Transients

12.30 I N T E R V A L

Wednesday 17 Afternoon

F R E E

Wednesday 17 Night

22.00 P E R F O R M A N C E I N P A L E R M O
(Splendid Hotel La Torre)

HIC HABITAT FELICITAS
(Mozarterie dal Regno di Dietro)
by
Flavia Giovannelli e Lisa Colosimo

played by

Anna Lisa Amodio and Flavia Giovannelli

23.00 I N T E R V A L

Thursday 18 Morning

HIGH ENERGY ASTROPHYSICS

Chairperson: ANDRZEJ ZDZIARSKI

08.30	Marco MERAFFINA	Dynamical evolution of Globular Clusters: the early distribution of star generations
09.00	Matteo TEODORI	Dynamical evolution of Globular Clusters: the degree of mass segregation from birth to nowadays
09.20	Simone PAGLIARELLA	The Impact of IXPE on the Knowledge of Extended Sources
09.50	Rosa POGGIANI	Search for Gamma-Ray Counterparts of a sample of IceCube Neutrino Events in the AGILE Public Archive
10.10	Andrea GOKUS	The Most Distant gamma-ray Flare to Date: A Multiwavelength Campaign on the $z = 4.715$ Blazar GB6 B1428+4217

10.30 Coffee Break

Chairperson: MARCO MERAFFINA

11.00	Andrea GOKUS	Rapid variability of Markarian 421 during extreme flaring as seen through the eyes of XMM-Newton
11.20	Swati RAVI	Soft X-ray Polarimetry - Current and Prospective

11.40 END OF THE SESSION

JET SOURCES & GAMMA-RAY BURSTS

Chairperson: ROSA POGGIANI

11.40	James BEALL	Astrophysical Jets in the Light of Recent and Historical Observations
12.10	Lorenzo AMATI	Cosmology and multi-messenger astrophysics with Gamma-Ray Bursts

12.40 I N T E R V A L

Friday 19 Afternoon

ONGOING EXPERIMENTS

Chairperson: GIUSEPPE PICCIONI

17.00	Filippo FRONTERA	Hard X-ray/Soft gamma-ray Laue Lenses for High Energy Astrophysics
17.30	Nicolas DE ANGELIS	Scientific Prospects of the POLAR-2 Mission
17.50	René HUDEC	ESA CHINA satellite SMILE and astrophysics
18.10	Abhay KUMAR	Probing Particle Acceleration in Solar Flares with Hard X-ray Polarimetry: The CUSP Mission Phase B Status and Future Outlook
18.30	Bruno Luigi MARTINO	Athena Mission's Monte Carlo Computing Cluster Upgrade

18.50 I N T E R V A L

Friday 19 Night

SPECIAL NIGHT SESSION

Chairperson: GUIDO DE MARCHI

22.00	Mauro BELLI	Space Radiation is a major challenge to human mission to Mars
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23.00 I N T E R V A L

Saturday 14 Morning

ONGOING EXPERIMENTS

Chairperson: VIOLETA GONZALEZ-PEREZ

09.00	Zhixing LING	The Einstein Probe Mission
09.30	Yuya NAKAMURA	GRAINE project: sub-GeV/GeV gamma-ray observations with high-angular resolution and polarization sensitivity - Latest results and Future Prospects

10.00 END OF THE SESSION

Coffee Break

Saturday 20 Morning

CONCLUDING REMARKS

Chairperson: MAURO BELLI

10.30 Concluding Remarks I
10.50 Concluding Remarks II
11.10 Concluding Remarks III
11.30 Concluding Remarks IV

11.50 END OF THE SESSION

CONCLUDING ADDRESS

11.50 Franco GIOVANNELLI Concluding Address

12.20 E N D O F T H E W O R K S H O P