



PAS Rome Meeting 2026

GRAVITATIONAL WAVES AND DETECTION TECHNOLOGIES

PROGRAMME

16 - 17 III 2026
Rome, Italy





PROGRAMME
MONDAY, 16.03.2026

9:30 - 10:45 **Registration**

10:45 - 11:00 **Official Opening**

11:00 - 13:00 **PLENARY SESSION I**

11:00 - 11:30 **Listening to the Universe: Recent Discoveries from LIGO–Virgo–KAGRA**
Andrzej Kolak

11:30 - 12:00 **Einstein Telescope and the World of Binaries**
Tomasz Bulik

12:00 - 12:30 **Einstein Telescope - the Future of Gravitational-Wave Observations**
Jan Harms

12:30 - 13:00 **Overview of the Virgo Upgrade Project**
Alessio Rocchi

13:00 - 14:00 **Lunch Break**

14:00 - 15:30 **PLENARY SESSION II**

14:00 - 14:30 **Squeezed Light for Gravitational-Wave Detection: Current Performance and Future Pathways**
Mikhail Korobko

14:30 - 14:50 **Upgrades to the Detection Optical Benches of Virgo in Preparation for the Next Observing Run O5**
Anne Daumas

14:50 - 15:10 **New Instrumented Baffles for the Main Optical Arms of the Virgo Experiment**
Mario Martinez

15:10 - 15:30 **Status of Crystalline Monolithic Suspension for ET-LF**
Michele Arcangelo Dicorato, Nicolo Baldicchi

15:30 - 16:00 **Coffee Break**

16:00 - 17:20 **PLENARY SESSION III**

16:00 - 16:20 **Birefringence Measurements on Crystalline Silicon**
Luca Craighero

16:20 - 16:40 **Validation of the Interferometric Detection System of LISA on Ground**
Maxime Vincent

16:40 - 17:00 **A Deep RL Framework for Locking Optimization in Simulated Optical Cavities**
Andrea Svizzeretto

17:00 - 17:20 **Towards an Anomaly Detection Pipeline for Gravitational Waves at the ET**
Huw Haigh

18:30 - 20:30 **Social Event**

PROGRAMME
TUESDAY, 17.03.2026

09:00 - 10:30 **PLENARY SESSION IV**

09:00 - 09:20 **Can We Form Gravitational Wave Sources from Binaries? The Role of Stellar Winds and Envelope Structure in the Formation of the Most Massive Black Holes**
Amedeo Romagnolo

09:20 - 09:40 **Estimating the General Evolution of the Core-collapse Supernova High Frequency Feature in Interferometric Noise**
Alejandro Casallas Lagos

09:40 - 10:00 **Detecting the Microlensing Pattern in the Microlensed Long-Duration Signals**
Sudhagar Suyamprakasam

10:00 - 10:20 **Uncertainty Quantification in Gravitational-Wave Burst Waveform Reconstruction with coherent WaveBurst 2G**
Alessandro Martini

10:20 - 11:00 **Coffee Break**

11:00 - 12:00 **PLENARY SESSION V**

11:00 - 11:20 **Performance of the 4-year Operation of the IMC Instrumented Baffle in Virgo**
Dounia Nanadoumgar Lacroze

11:20 - 11:40 **From Data Acquisition to Noise Mitigation, Environmental Sensor Arrays in Gravitational-Wave Observatories**
Mariusz Suchenek

11:40 - 12:00 **Modelling Newtonian Noise of Acoustic Origin in the Caverns of the ET Gravitational Wave Detector**
François Gautier

14:00 - 16:00 **Final Roundtable: Insights, Outcomes, and Next Steps**



Rome
Scientific Center



UNIVERSITÀ DEGLI STUDI
DI PERUGIA

