

# Einstein Telescope @ Istituto Nazionale di Astrofisica”



**Tuesday, 12 December 2023 - Wednesday, 13 December 2023**

**INAF Osservatorio di Roma Monte Mario**

## **Scientific Programme**

## Data/ora

12 Dicembre

14:00 **M. Tavani** Presentazione workshop

14:10 Interventi Istituzionali

**Cons. Alessandra Tognonato** - MAECI14:30 **F. M. Zerbi** INAF nei grandi progetti internazionali14:40 **M. Branchesi** ET nell'era multi-messenger14:55 **F. Patat** ESO Facilities for multi-messenger15:10 **G. Ghirlanda** ET related activities in INAF (+ OSB DIV4)15:25 **S. Piranomonte** INAF activities in the OSB ET DIV715:40 **S. Esposito** INAF nel PNRR ETIC15:55 **A. Grado** INAF for the ET infrastructure16:10 **M.T. Crosta** GW sources: strength, direction, and astrophysical characterisation via differential relativistic astrometry16:25 **Coffee break**16:45 **A. Fontana** Optical infrastructures for multi-messenger17:00 **F. Govoni** Radio infrastructures for multi-messenger. The contribution of SRT17:15 **L. Amati** The great synergy of THESEUS with the Einstein Telescope17:30 **A. Stamerra** The electromagnetic followup of GW events at TeV energies with the CTA-Observatory17:45 **E. Pian** ET - PNRR CTA+ multi-messenger18:00 **P. D'Avanzo** Towards the Einstein Telescope: the GRAWITA experience18:15 **S. Casu** INAF for ET – Public engagement20:30 **Dinner**

13 Dicembre

9:00 **R. Ragazzoni** ET vs MezzoCielo: un monitoraggio continuo delle possibili controparti ottiche9:20 **S. Campana** HUGO & SOXS-N: two new ideas for the follow-up of ET-triggers9:35 **P. Schipani** WST: the Wide-field Spectroscopic Telescope9:50 **G. Antinozzi** Forecast cosmological constraints from the distribution of Gravitational Waves events10:05 **M. Arca Sedda** Unveiling the formation of intermediate-mass black holes in dense star clusters with ET10:15 **M. Cantiello** Precision Distance Measurements for GW Source Counterparts in the ET era10:25 **A. Colombo** Electromagnetic counterparts of BNS and BHNS mergers in the ET era10:35 **Coffee break**11:00 **G. Gianfagna** Potential biases and prospects for the Hubble constant estimation via electromagnetic and gravitational-wave joint analyses11:10 **C. Ugalini** STARLIGHT: Shedding Light on the Formation and Fate of Stellar Remnants in view of Einstein Telescope11:20 **F. Mannucci** The progenitors of the BH seeds merging at high redshift11:30 **D. Perrodin** Pulsar Timing Arrays and E11:40 **A. Frigeri** Geological Mapping and Geophysical Modeling for Gravitational Wave Detection11:50 **F. Finelli** Synergy between CMB B-mode polarisation and the direct search of gravitational-wave backgrounds12:00 **M. Punturo** ET roadmap