

THESEUS Consortium Meeting 2025 (ASI auditorium in Rome, October 7 - 9)

Agenda

Tuesday October 7th

14:00 – 14:20: Welcome address by ASI and Consortium (Negri, Amati)

Phase-A study status: towards MSR (chair: Amati)

14:20 – 15:00: Overview and mission profile (ESA: Oosterbroek, Vavrek)

15:00 – 15:20: Consortium and Science Study Team (Amati)

15:20 – 15:35: SXI - Study overview (Lerman, Hutchinson)

15:35 – 15:50: SXI – Pptics study (Feldman)

15:50 – 16:05: SXI - Beyond CCDs: CMOS image sensors for soft X-ray astronomy (Buggey)

16:05 – 16:20: SXI - The Spanish contribution to SXI (Melchor)

16:20 – 16:35: coffee break

16:35 – 16:55: XGIS – Study overview (Campana)

16:55 – 17:10: XGIS - The Electrical Ground Support Equipment (Marisaldi)

17:10 – 17:25: XGIS – The Spanish contribution (Caballero-Garcia)

17:25 – 17:45: IRT – Overall and camera Study overview (Gotz)

17:45 – 18:05: IRT – Telescope study (Saggin, Oggioni, Terenzi, Corti)

18:05 – 18:20: IRT - Calibration Unit (Toth)

18:20 – 18:40: Payload Data Handling Units (Tenzer)

Wednesday October 8th

Science: Introduction (chair: Gotz)

09:30 – 09:50: “Yellow Book” and science reviews preparation (Kuulkers, Amati)

09:50 – 10:15: Concept of operations, Mission Simulator and Science simulation tools (Bozzo)

10:15 – 10:30: Scientific simulations for THESEUS with SIXTE (Lorenz)

Science: Cosmic Dawn (chair: Gotz)

10:30 – 11:10: Overview (Christensen)

11:10 – 11:30: coffee break

11:30 – 11:50: High-z GRBs through absorption spectroscopy (Saccardi)

11:50 – 12:10: Model-independent calibration of GRB with Bayesian Neural Networks (Piedipalumbo)

12:10 – 12:40: Overview of THESEUS scientific value in late '30s and the '40s (Tanvir)

12:40 – 14:00: lunch

Science: Multi-messenger astrophysics (chair: Bozzo)

14:00 – 14:40: Overview (Ciolfi)

14:40 – 15:00: The Legacy of INTEGRAL multi-messenger searches (Ferrigno)

Science: Time-domain astronomy (chair: Bozzo)

15:00 – 15:40: Overview (Mereghetti, Osborne)

15:40 – 16:00: THESEUS and Accreting WDs (Balman)

16:00 – 15:20: Prospects for magnetars (Arrighi)

16:20 – 16:40: Coffee break

Science: GRB science (chair: Bozzo)

16:40 – 17:20: Overview (Salvaterra)

17:20 – 17:40: The Gamma-ray Transients Monitor (GTM) onboard Formosat-8B (Chang)

Thursday October 9th

Science: Fundamental Physics and Guest Observer science (chair: Amati)

09:30 – 10:00: Fundamental physics with THESEUS (Santangelo)

10:00 – 10:30: Feasibility and implementation of GO programme with THESEUS (Bozzo, Vavrek)

10:30 – 11:00: GO science with THESEUS (Blain) (remote)

11:00 – 11:30: coffee break

Science: Synergies and final discussions (chair: Amati)

11:30 – 13:00: Focus on synergies, final discussions and closure

13:00 – 14:30: final lunch