

## Session Program

10-11 Jul 2025



## Shaping the Italian contribution to HWO

### *Space technology*

Rome

Dipartimento di Fisica, Edificio G. Marconi, Sala Conversi, Università La Sapienza, Piazzale Aldo Moro, 5,  
00185 Roma RM

## Friday 11 July

11:40

### Space technology: part 1

**Session** |

**Location:** Rome, Dipartimento di Fisica, Edificio G. Marconi, Sala Conversi, Università La Sapienza, Piazzale Aldo Moro, 5, 00185 Roma RM

11:40–11:55

#### HWO and its optics system: requirements, challenges and possible European contributions

**Speaker**

Giovanni Pareschi

11:55–12:10

#### Pyramid WaveFront Sensors and contactless active mirrors: a research program for high contrast imaging

**Speaker**

Runa Antonio Briguglio Pellegrino

12:10–12:25

#### R&D for space-based High-Contrast Imaging in Europe

**Speaker**

Daniele Vassallo

12:25–12:40

#### PSF reconstruction from WFS data and other tools to make your images sharper and deeper

**Speaker**

Fernando Pedichini

12:40

14:05

### Space technology: part 2

**Session** |

**Location:** Rome, Dipartimento di Fisica, Edificio G. Marconi, Sala Conversi, Università La Sapienza, Piazzale Aldo Moro, 5, 00185 Roma RM

14:05–14:20

#### AI Assisted observational strategies for HWO

**Speaker**

Marco Landoni

14:20–14:30

#### Atmospheric retrievals: from machine learning to quantum technologies

**Speaker**

Tiziano Zingales

14:30–14:45

#### High Dynamic Range Photon-Counting UV Detectors

**Speaker**

Michela Clelia Angela Uslenghi

14:45–15:00

#### Polarimetry Perspectives for HWO

**Speaker**

Dr Silvano Fineschi

15:00