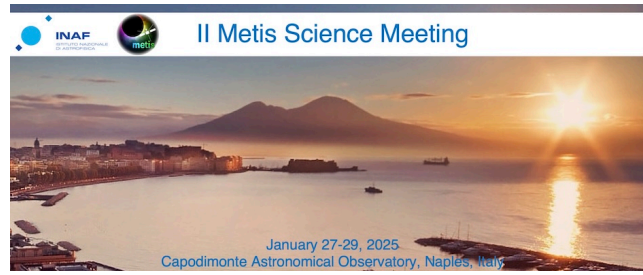


2nd Metis Science Meeting



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The ultimate EUV solar spectrometer: SOLAR-C/EUVST

SOLAR-C is the next JAXA-led devoted to the study of the Sun. The overarching science goals of the missions is to further our understanding of how underlying physical processes, acting on small scales, lead to the formation of the outer solar atmosphere and the solar wind, and how the solar atmosphere becomes unstable, releasing the energy that drives solar flares and eruptions.

The main mission payload is EUVST (EUV High-Throughput Spectroscopic Telescope), an EUV imaging spectrometer with slit-jaw imaging system designed to simultaneously probe the solar atmosphere from the chromosphere to the corona on a wide range of wavelengths and therefore of temperatures (from 0.1 to 10 MK), with a spatial resolution as low as $0.4''$ and a temporal cadence as high as 1 s.

Crucial to achieving these challenging observational parameters will be the high sensitivity of the instrument, surpassing all previous flown solar spectrographs. In this talk I will give an overview of the capabilities of the EUVST instrument, highlighting some science cases with an emphasis on synergies with other missions and facilities.

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