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The Euclid Mission

Euclid is a mission of the European Space Agency designed to constrain the properties of dark energy and gravity via weak gravitational lensing and galaxy clustering. After its launch in July 1st, 2023 it is carrying out a wide area imaging and spectroscopy survey (the Euclid Wide Survey: EWS) in visible and near- infrared bands, covering approximately 15000 deg² of extragalactic sky in six years. Euclid is equipped with a 1.2 m diameter Silicon Carbide (SiC) mirror telescope made by Airbus (Defence and Space) feeding 2 instruments, VIS and NISP, built by the Euclid Consortium : a high quality panoramic visible imager (VIS), a near infrared 3-filter (Y, J and H) photometer (NISP-P) and a slitless spectrograph (NISP-S). This talk will present the satellite and its instruments, which are optimised for pristine point spread function and reduced stray light, producing very crisp images, as well as the survey strategy, the global scheduling, the commissioning results, its progress and the preparation of the Science Data Centers to produce scientific data

Secondary track

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