



Contribution ID: 605

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## Pre-launch optical verification of the Euclid mission NISP Instrument

*Friday, 8 July 2022 20:10 (20 minutes)*

To characterize the Near Infrared Spectro-Photometer (NISP) instrument optical capability before the launch in orbit of the Euclid telescope, foreseen in 2023, data analysis of ground-based campaign tests made in laboratory as well as Monte Carlo simulations that mimic the expected NISP performances have been performed. These pre-launch tests have been analyzed to assess the fulfillment of the mission specifications in terms of Point Spread Function (PSF), i.e.  $EE50(\text{PSF}) \leq 0.3$  pixel, and spectral calibration, i.e.  $\sigma(\lambda) < 1$  pixel or  $\Delta z/z \leq 0.001$ , as well as to provide a first comparison between real images from the ground-based campaign tests and simulated images.

We confirm the high optical quality of the NISP instrument, fulfilling the mission specifications in terms of PSF and spectral calibration with a great stability between the different campaign tests. A first comparison between simulations and data obtained from the ground-based campaign tests will be provided.

### In-person participation

Yes

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**Session Classification:** Poster Session

**Track Classification:** Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors