

Contributed Talk

Splinter Euclid

OU-MER STATUS

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The Euclid satellite is an ESA mission scheduled for launch in 2020. It will observe an area of 15 000 deg^2 with two instruments, the Visible Imaging Channel (VIS) and the Near IR Spectrometer and imaging Photometer (NISIP). Ground based imaging data in griz from surveys such as the Dark Energy Survey complement the Euclid data to enable photo-z determination. The mission investigates the distance-redshift relationship and the evolution of cosmic structures by measuring shapes and redshifts of galaxies and clusters of galaxies out to $z \sim 2$

The responsibility of the Organizational Unit (OU) MER is to generate multiwavelength catalogs from the Euclid data with in total $\sim 10^9$ objects which are stored in the archive and passed on to other OU's for photo-z and weak lensing analysis. I will discuss the concepts and strategies to generate the Euclid catalogues that meet the tight requirements on photometric accuracy.

The entire cataloging processing function saw first light during the currently ongoing Euclid Science Challenge 3 (SC#3). In SC#3 the various data processing functions (for VIS, NIR and external data) are run on simulated data in the Science Data Centers (SDC) in Garching and elsewhere in order to test and validate the data products against the requirements, and I will report preliminary results for the MER processing function.