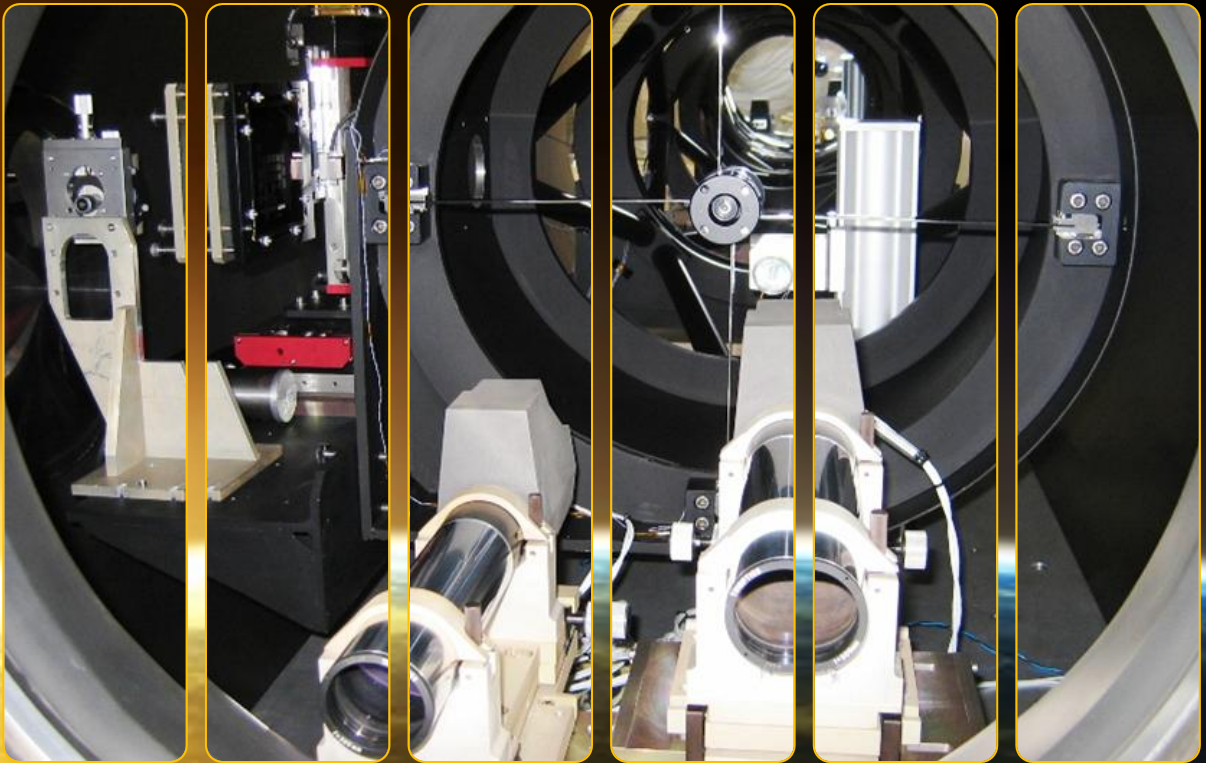


Optical Design & Metrology Laboratory



Optical system development
from concept to qualification



OPTICAL DESIGN & METROLOGY

The competences

The "Optical design and metrology" group activities cover :

- Development of new metrology tools
- Development of flight optical instrumentation
- Development of new optical concepts
- Support to industry in optical problems
- Perform optical design and analysis
- Development of Optical Ground Support Equipment from the X-rays until the sub-mm
- Carry out stray light analysis and measurements

The Labs

Several labs are available and dedicated for different purposes as WFE measurement, optical tables for the development of optical experiments, optical tables in a class 100 for OGSE integration

Internal developed labs

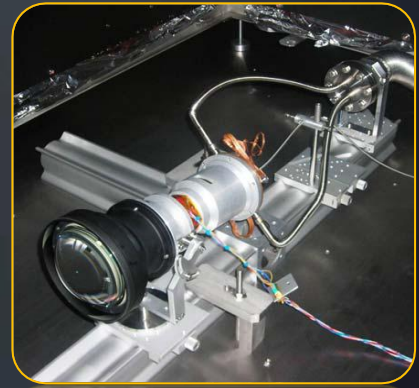
- One BRDF bench in class 100
- One stray light facility in class 100
- One EUV imaging system in class 100

Optical design

- The optical designers use commercial S/W as CODE V, ASAP, FRED, IDL, Intellwave to solve any type of optical problem, from **small to extremely large optics from geometrical to wave optics**

Recent projects

- Optical calibration of earth observation satellites
- Calibration of MSI and OLCI flight diffusers
- Stray light Analysis and measurements in class 100 and under vacuum
- Multi foci intra ocular lens
- Laser cladding metrology bench
- Solar optics
- Illumination benches
- Development of optical instruments
 - ◆ Coarse lateral sensor
 - ◆ Target projector for videogrammetry
 - ◆ Sun observation telescope (EUI)

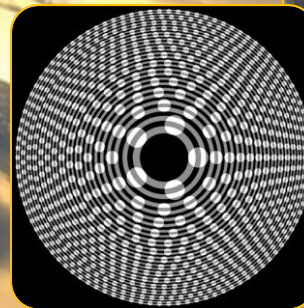


Target Projector for Videogrammetry



From small (IOL 6 mm)

to large 6m Solar Simulator



to extra large (100 m photon sieves) optics



BRDF Lab



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