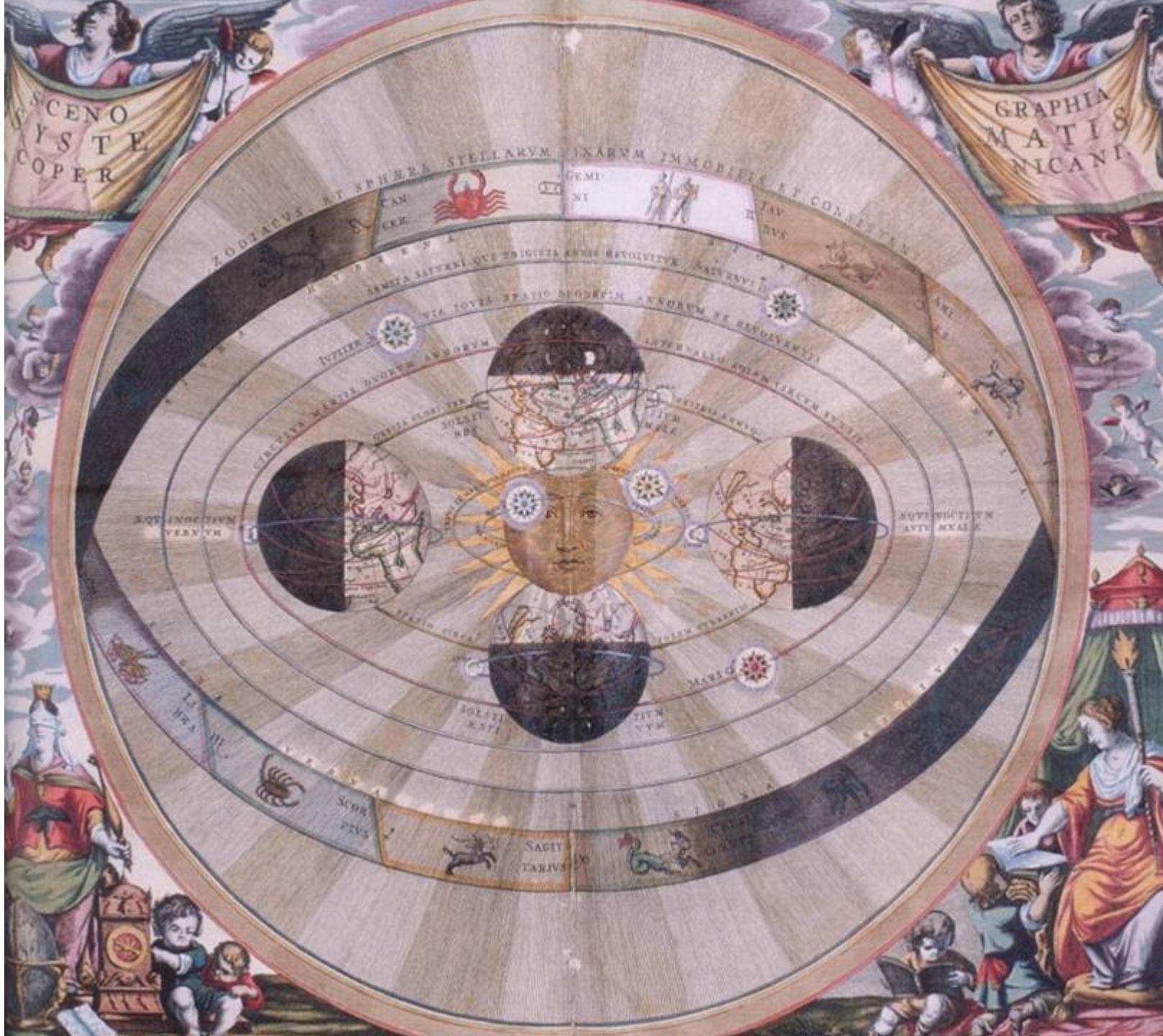


The title page features the title 'FIGVRA DO S CORPOS CELES' in large, gold-colored letters at the top. Below the title are two small celestial globes. The globe on the left shows the Northern Hemisphere with labels for 'Leyendas' and 'Círculo Equinocial'. The globe on the right shows the Southern Hemisphere with labels for 'Australes' and 'Círculo Equinocial'. The entire page has a decorative border.









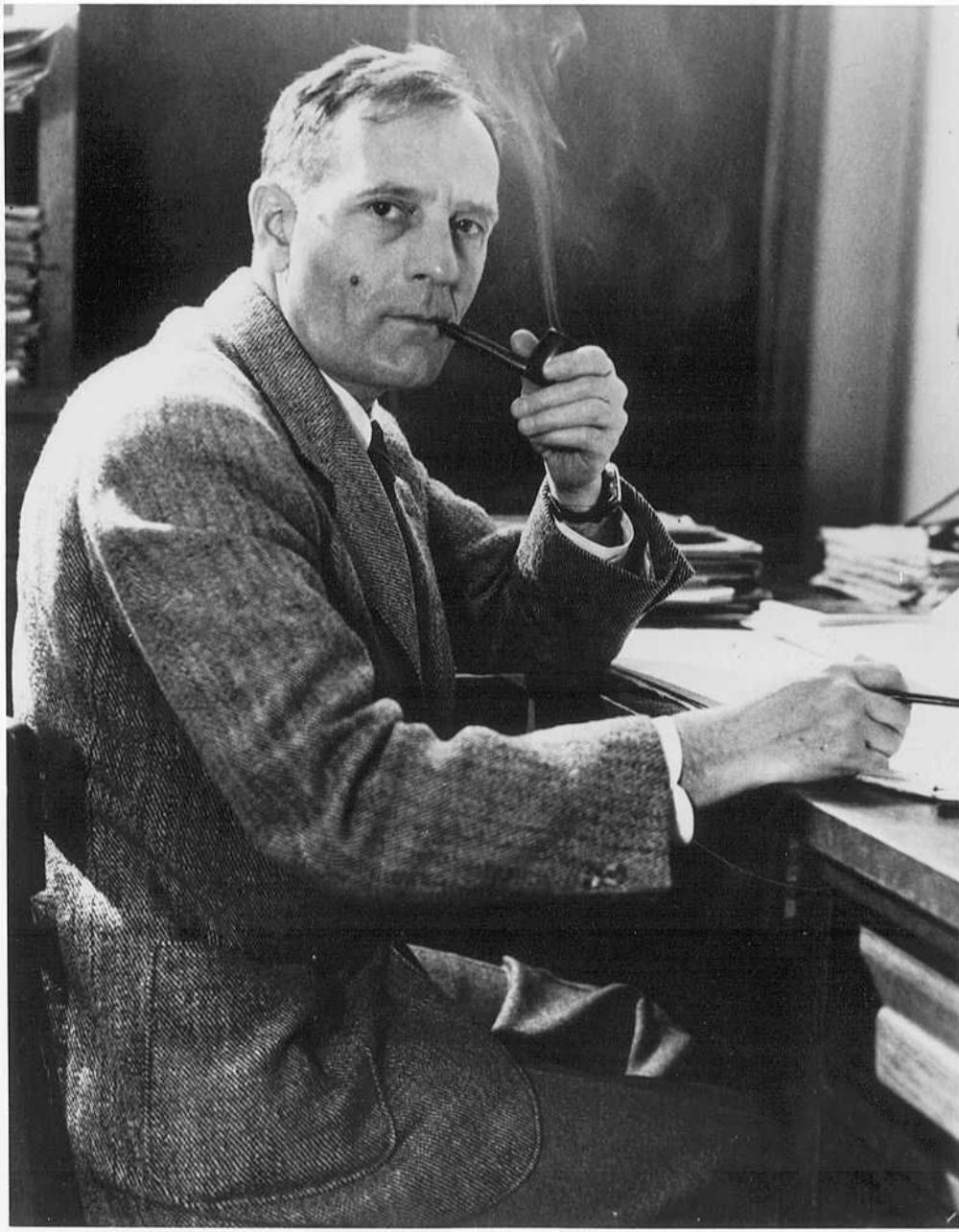


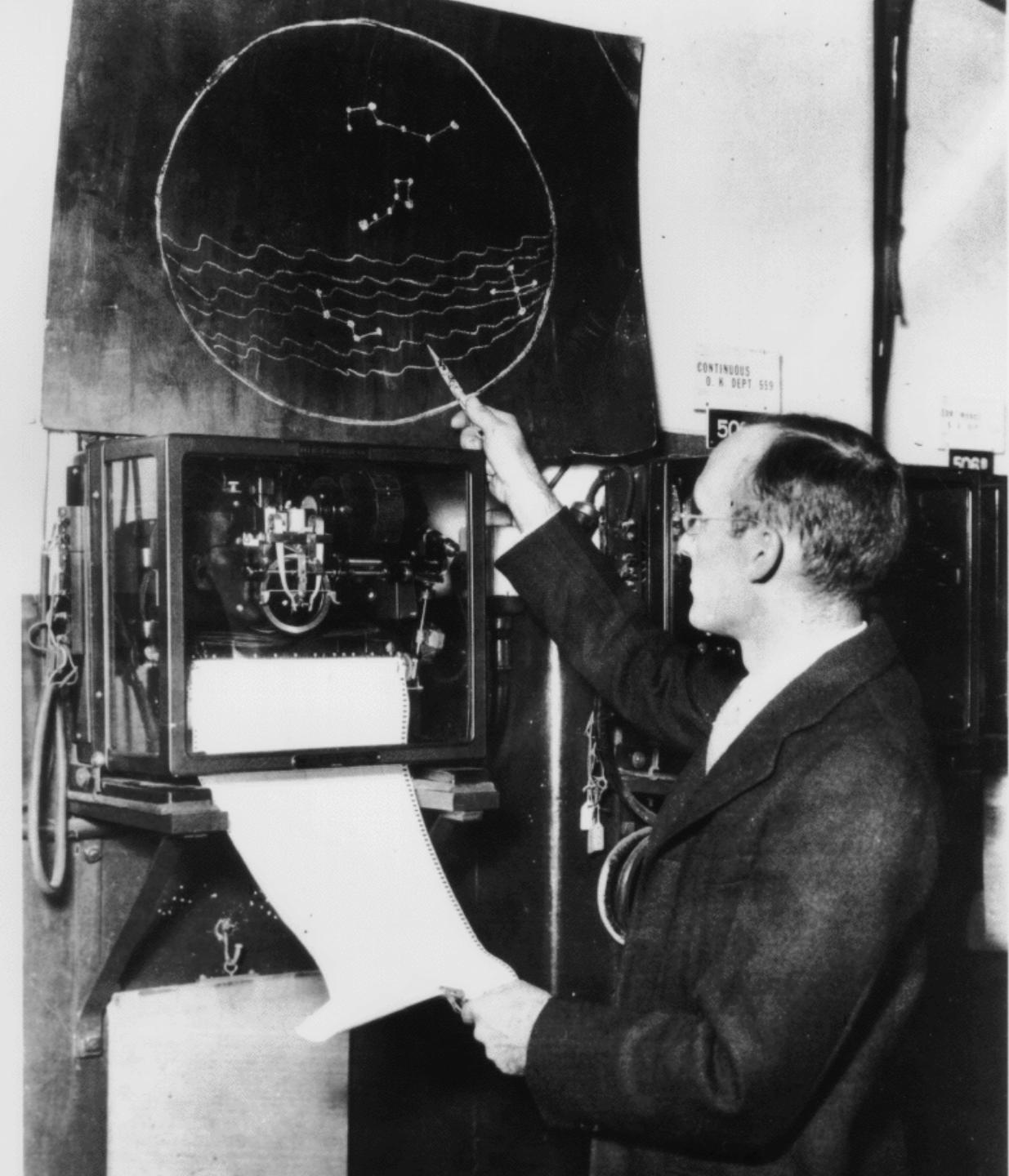


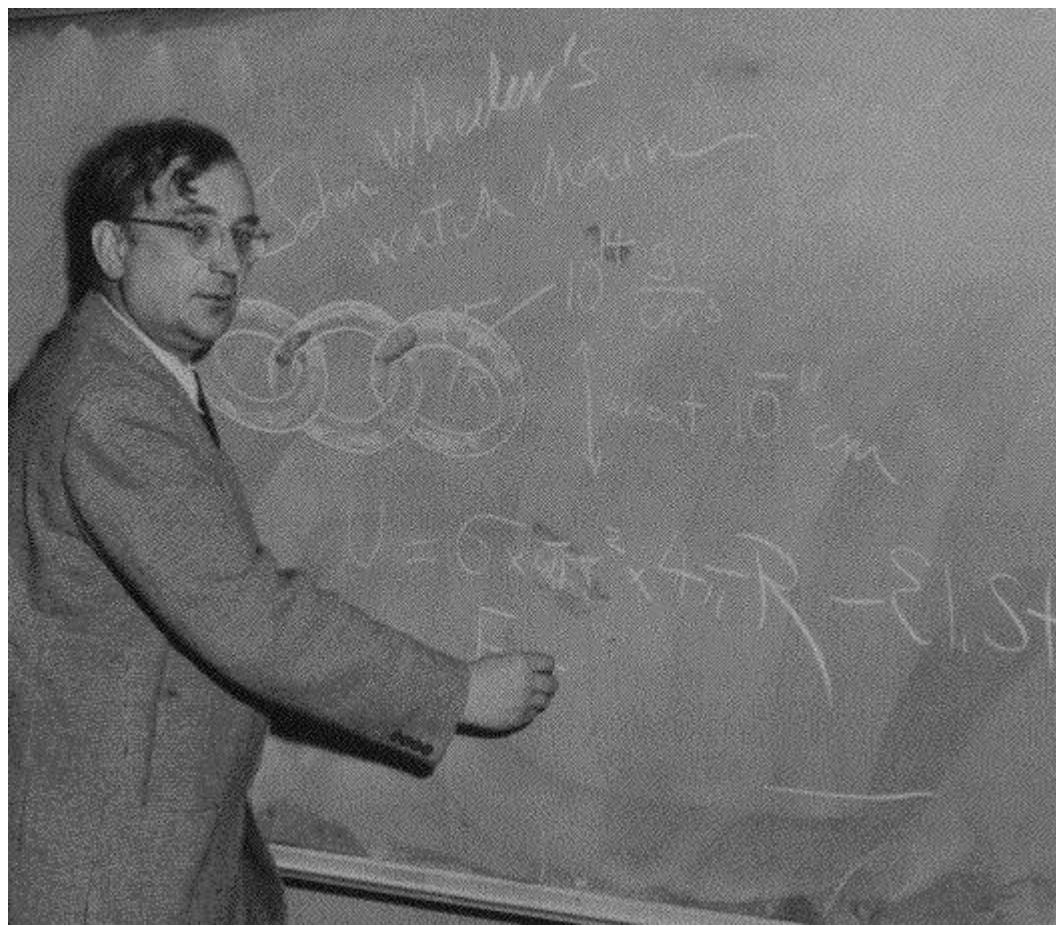


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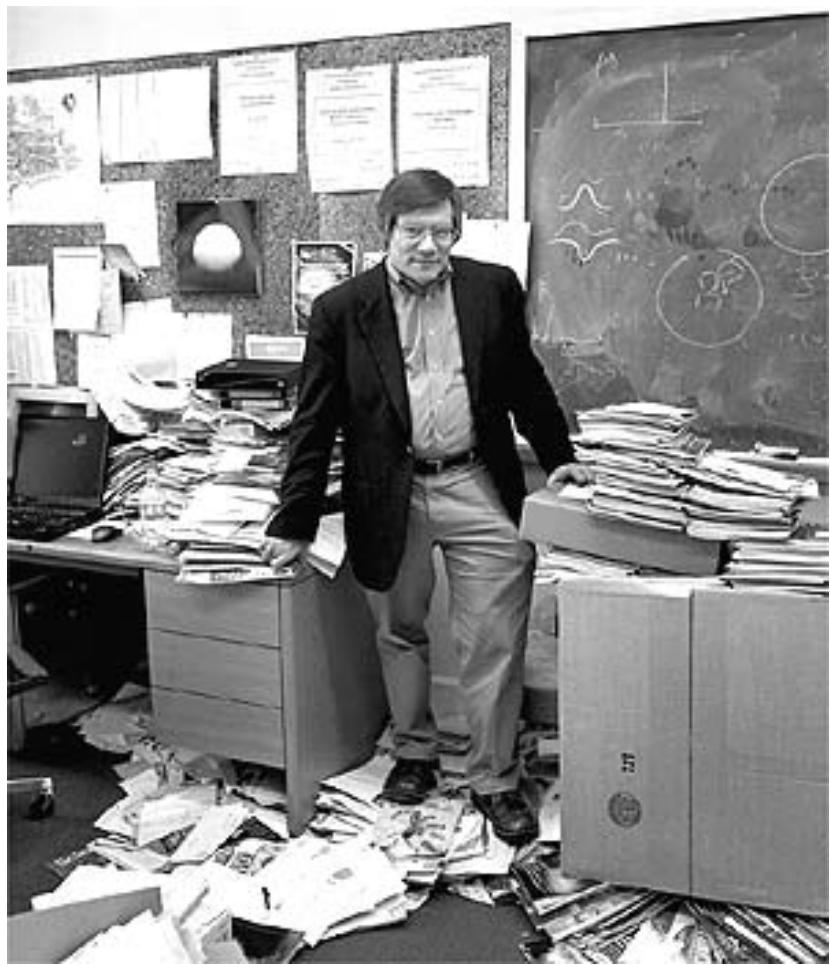


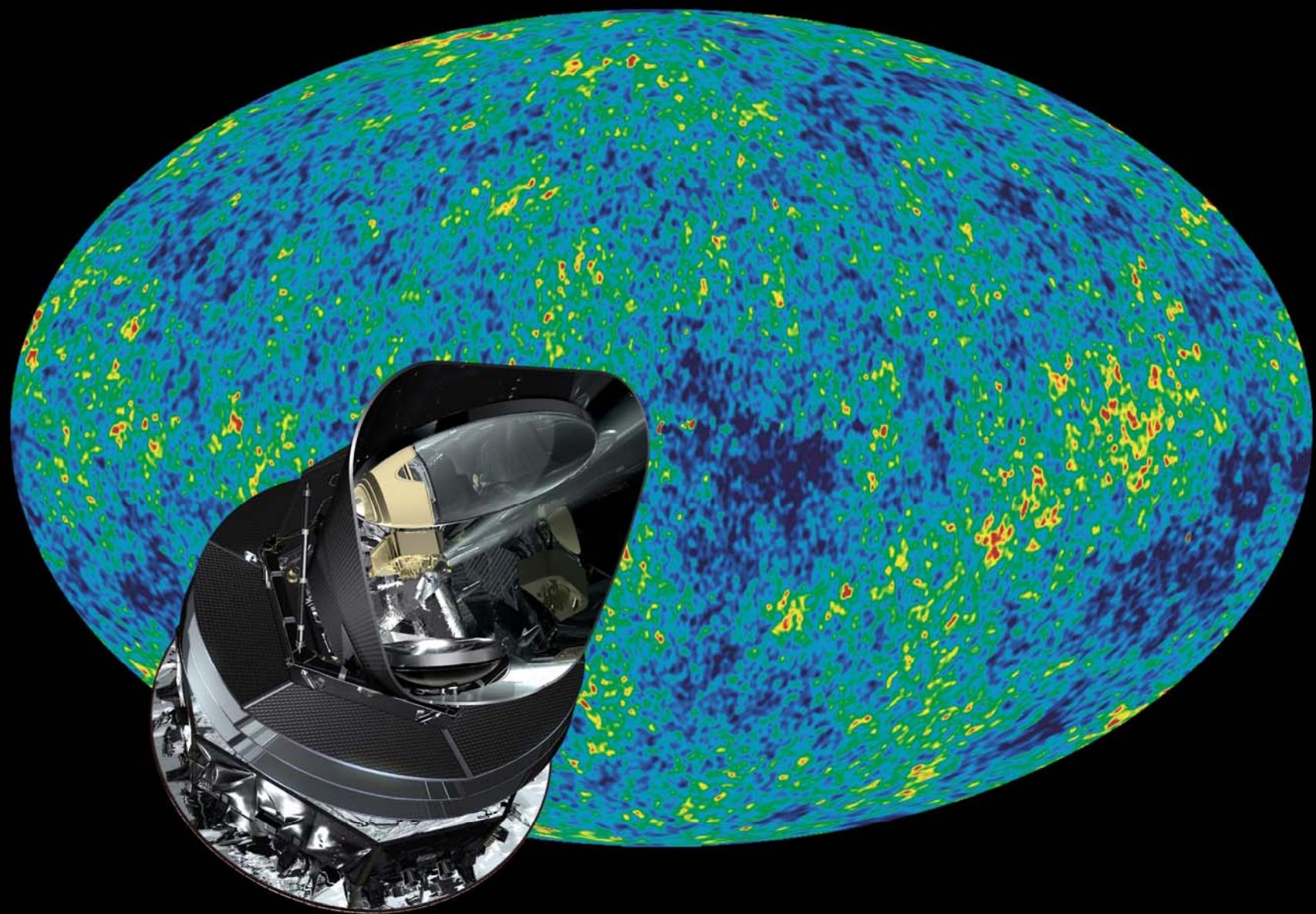


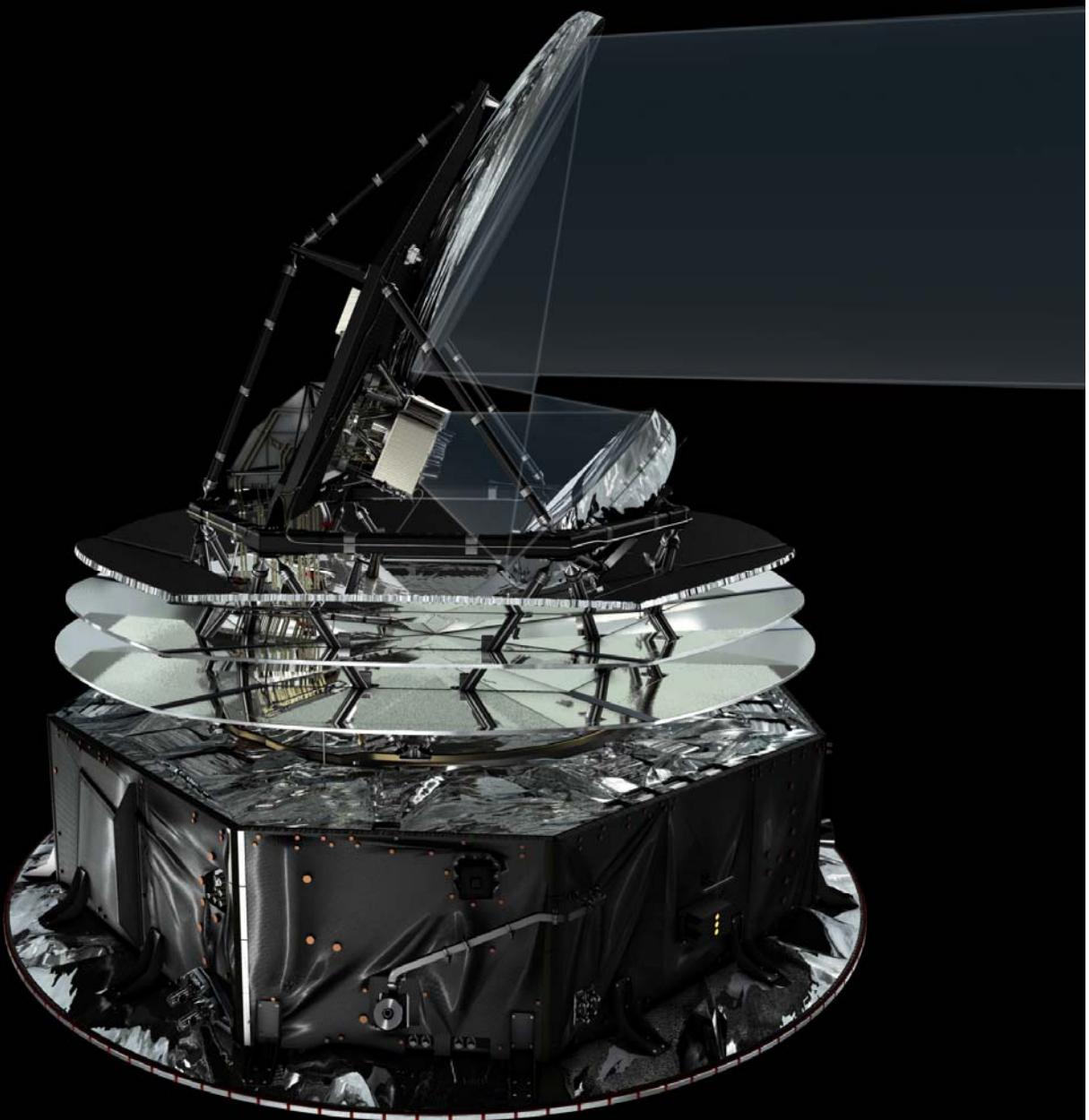


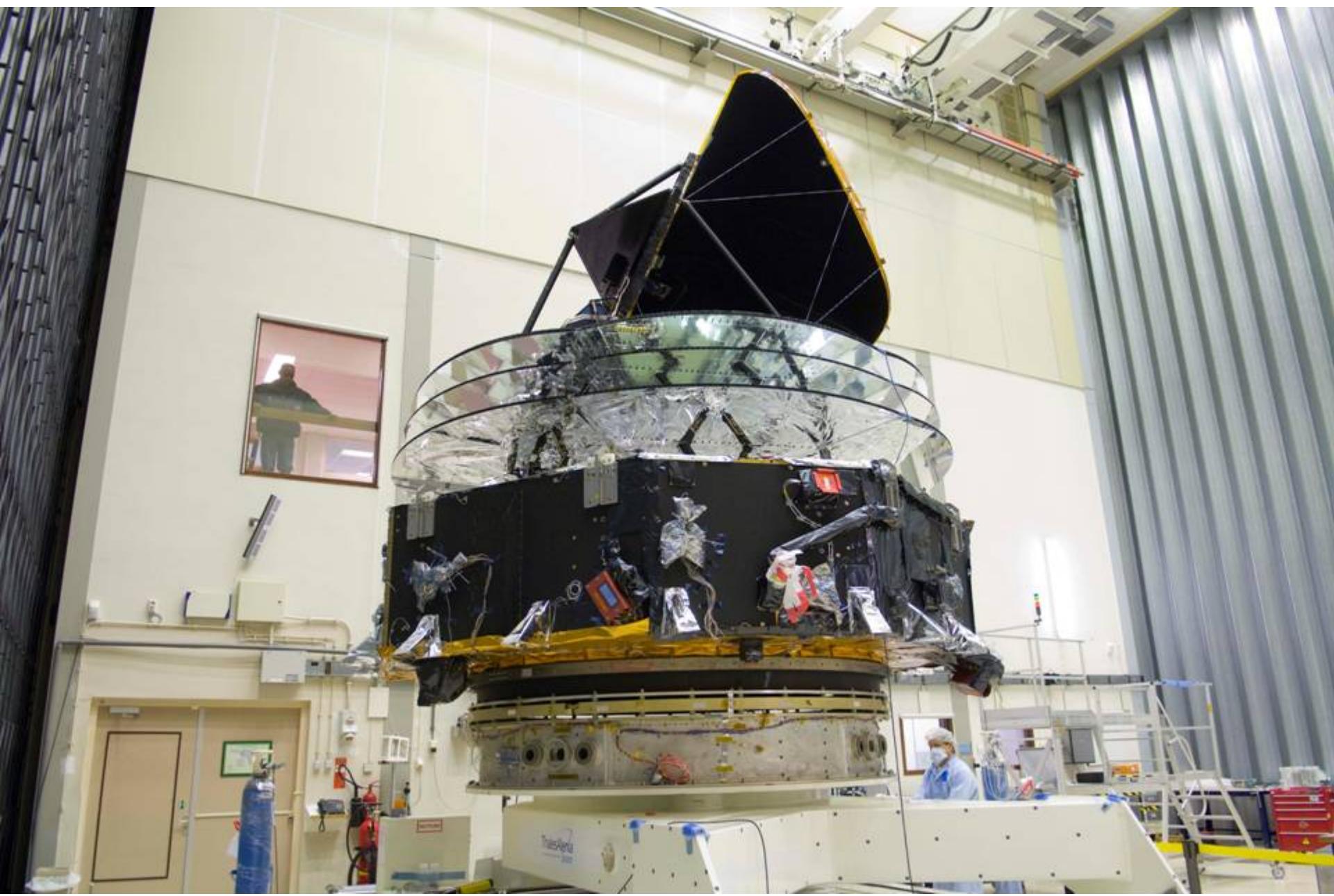


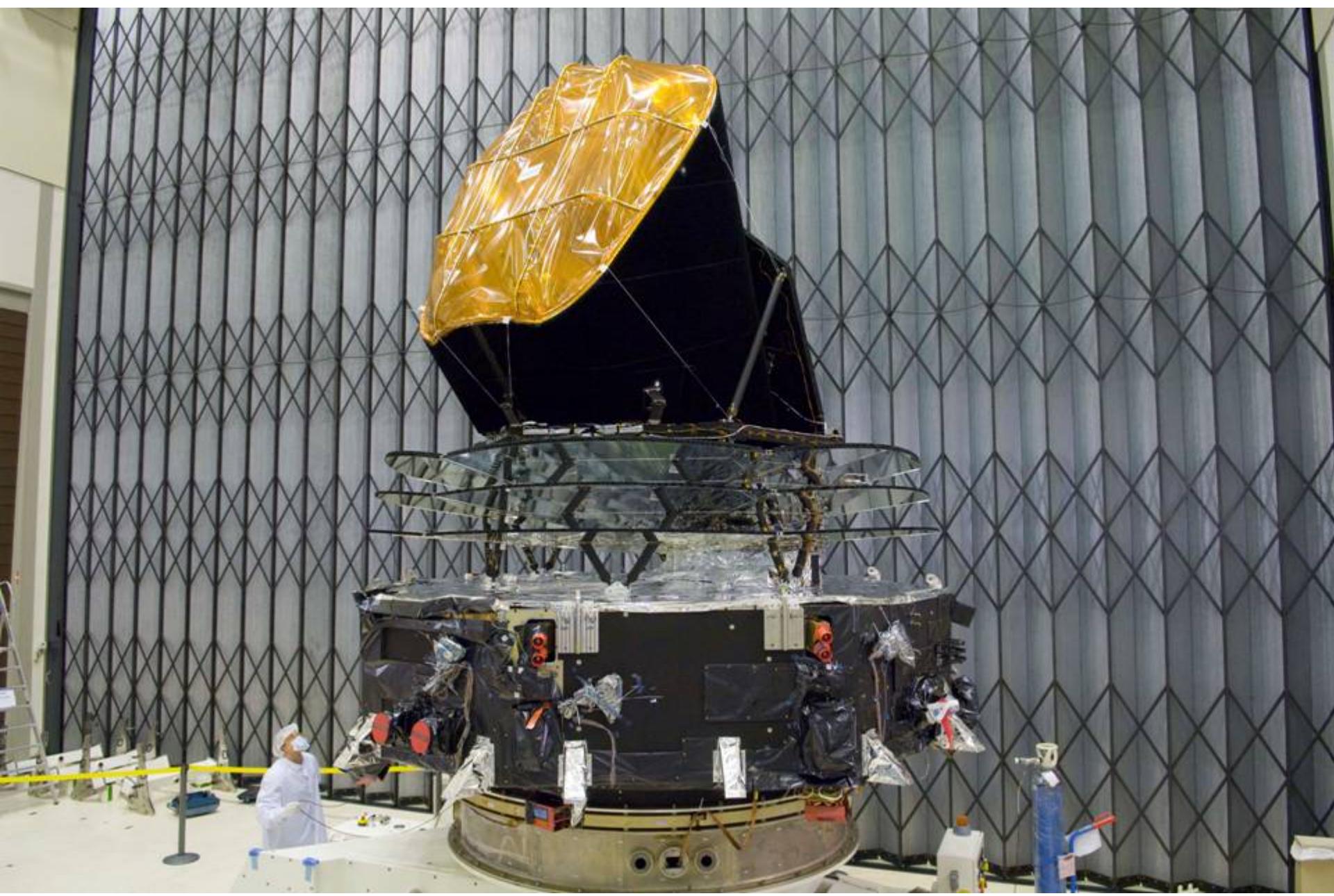
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Institute of Physics







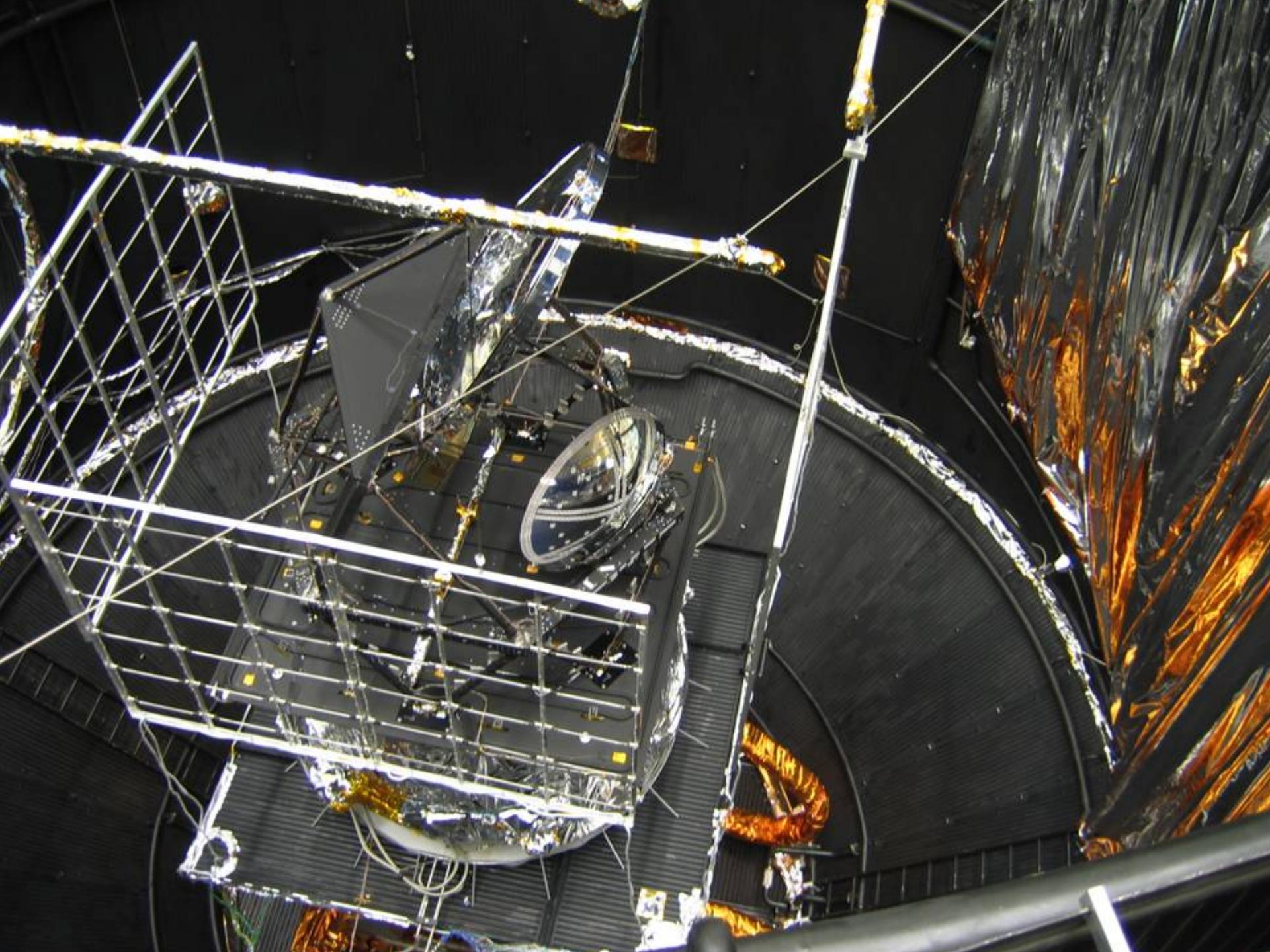


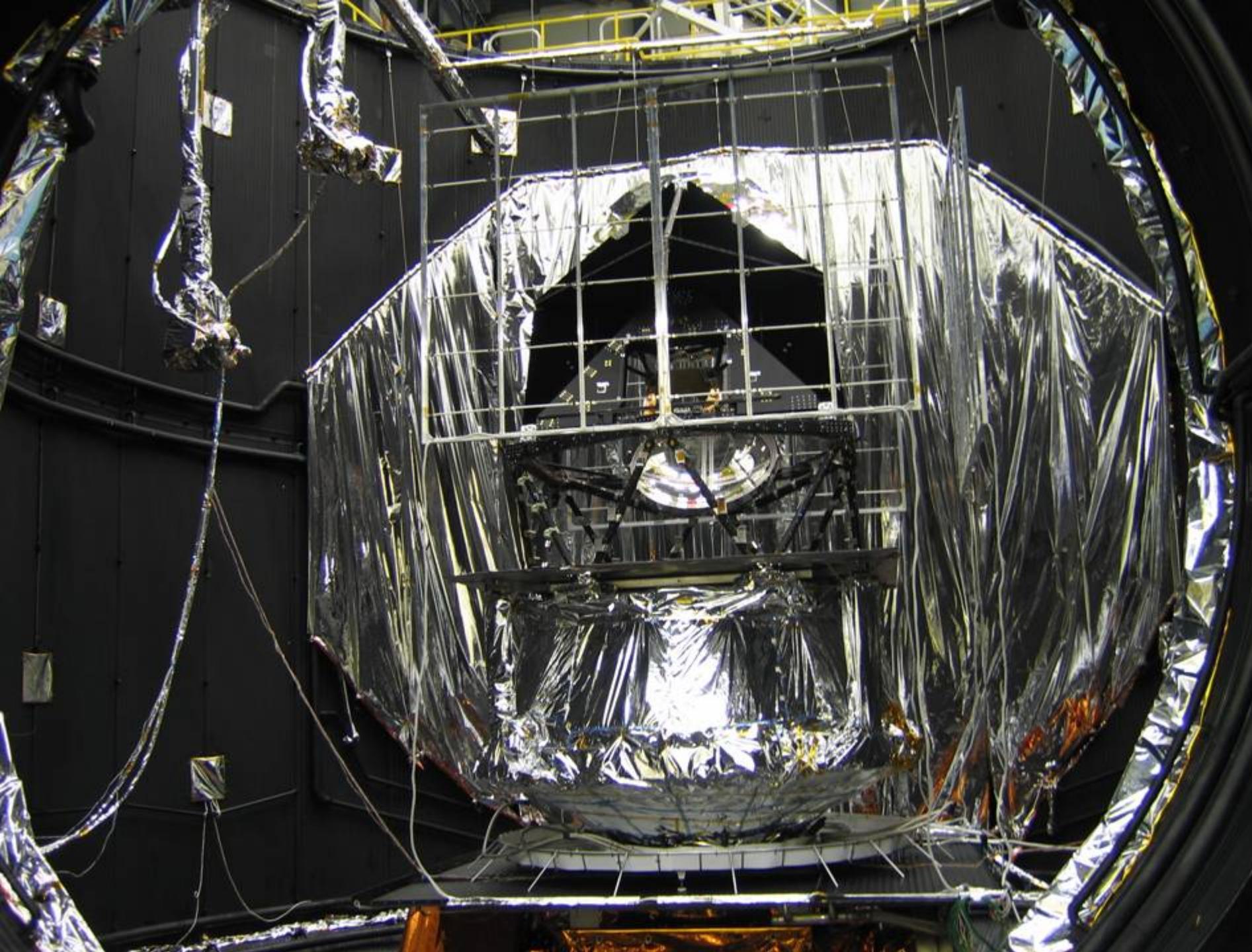




Contraves | Space







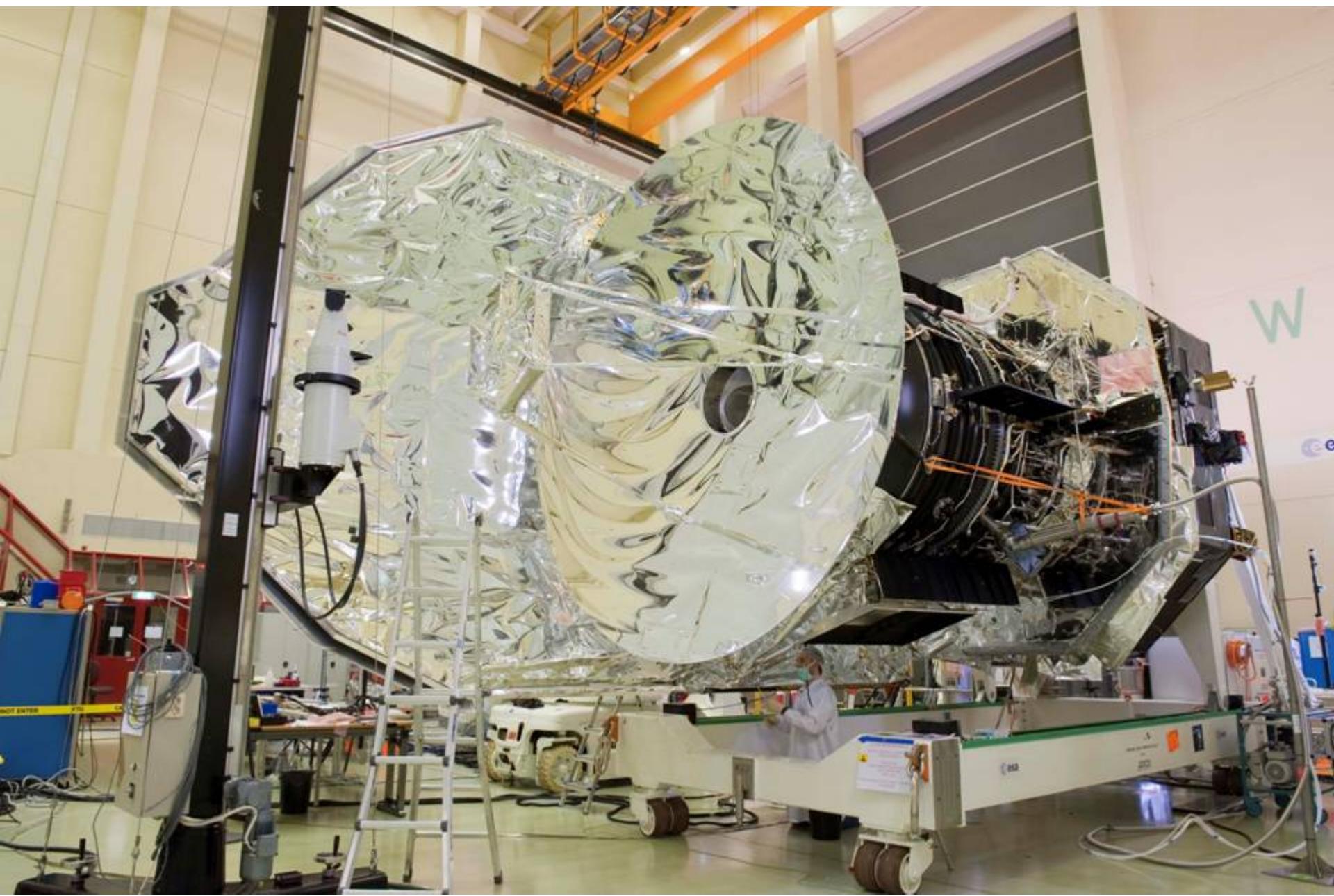


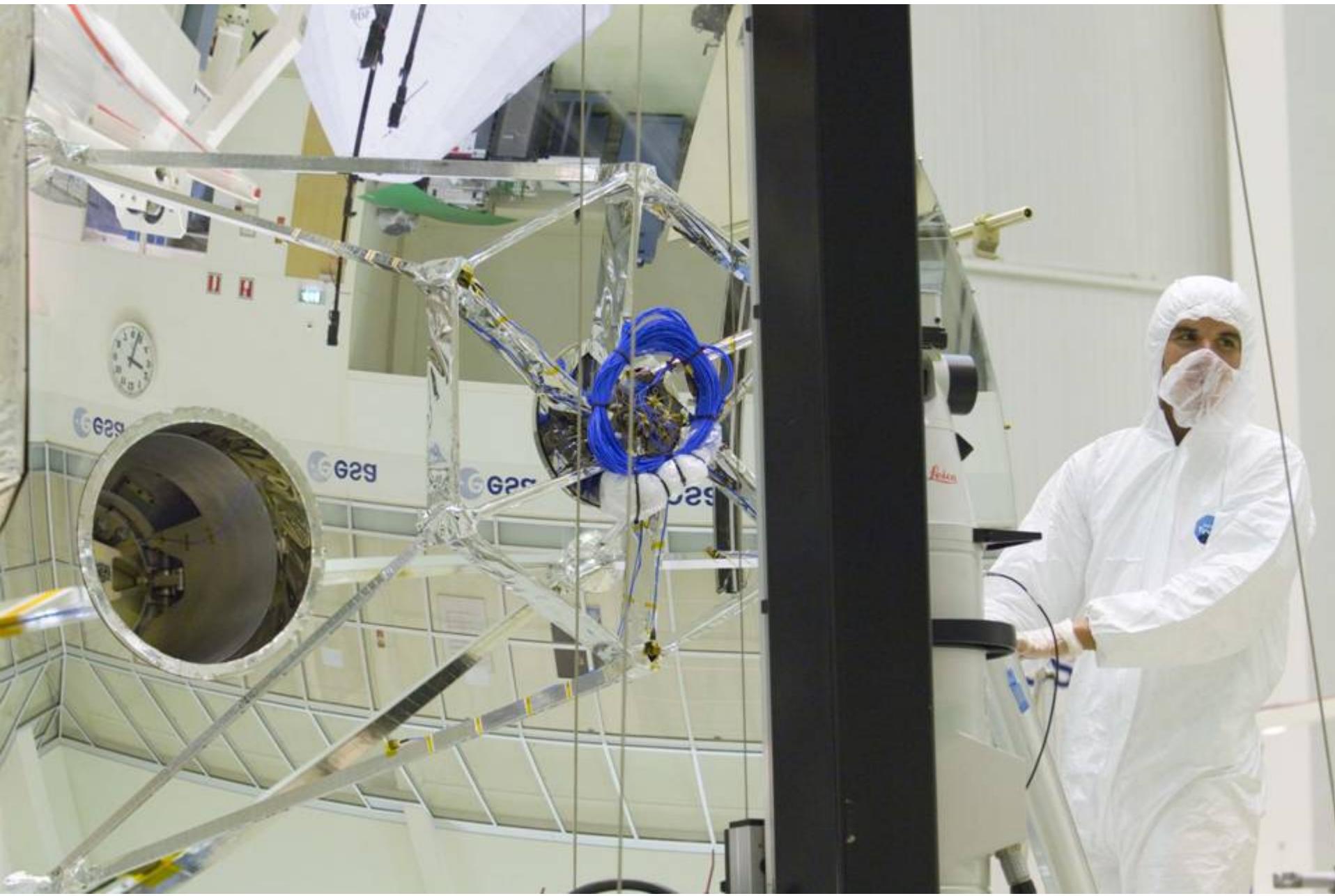






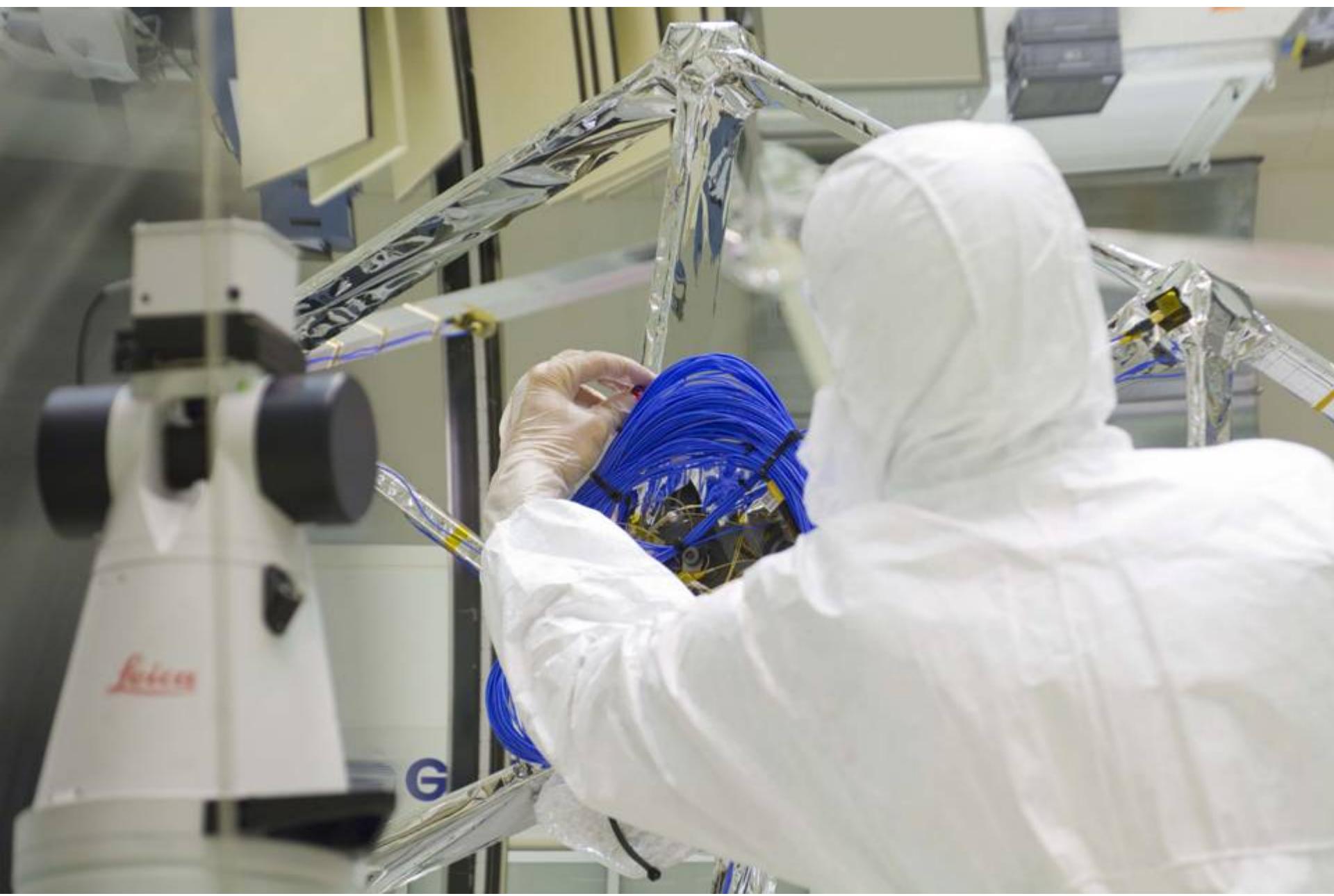


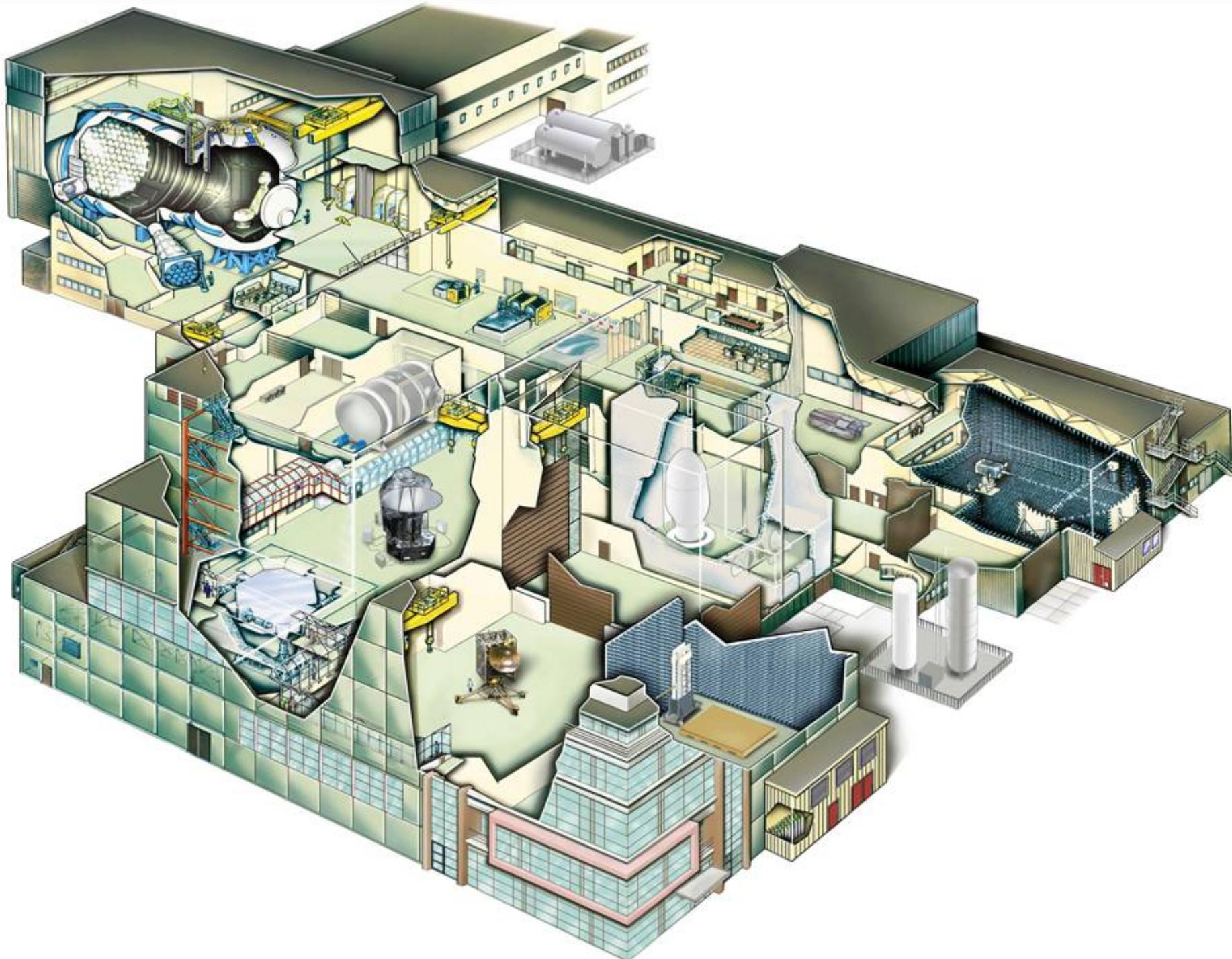




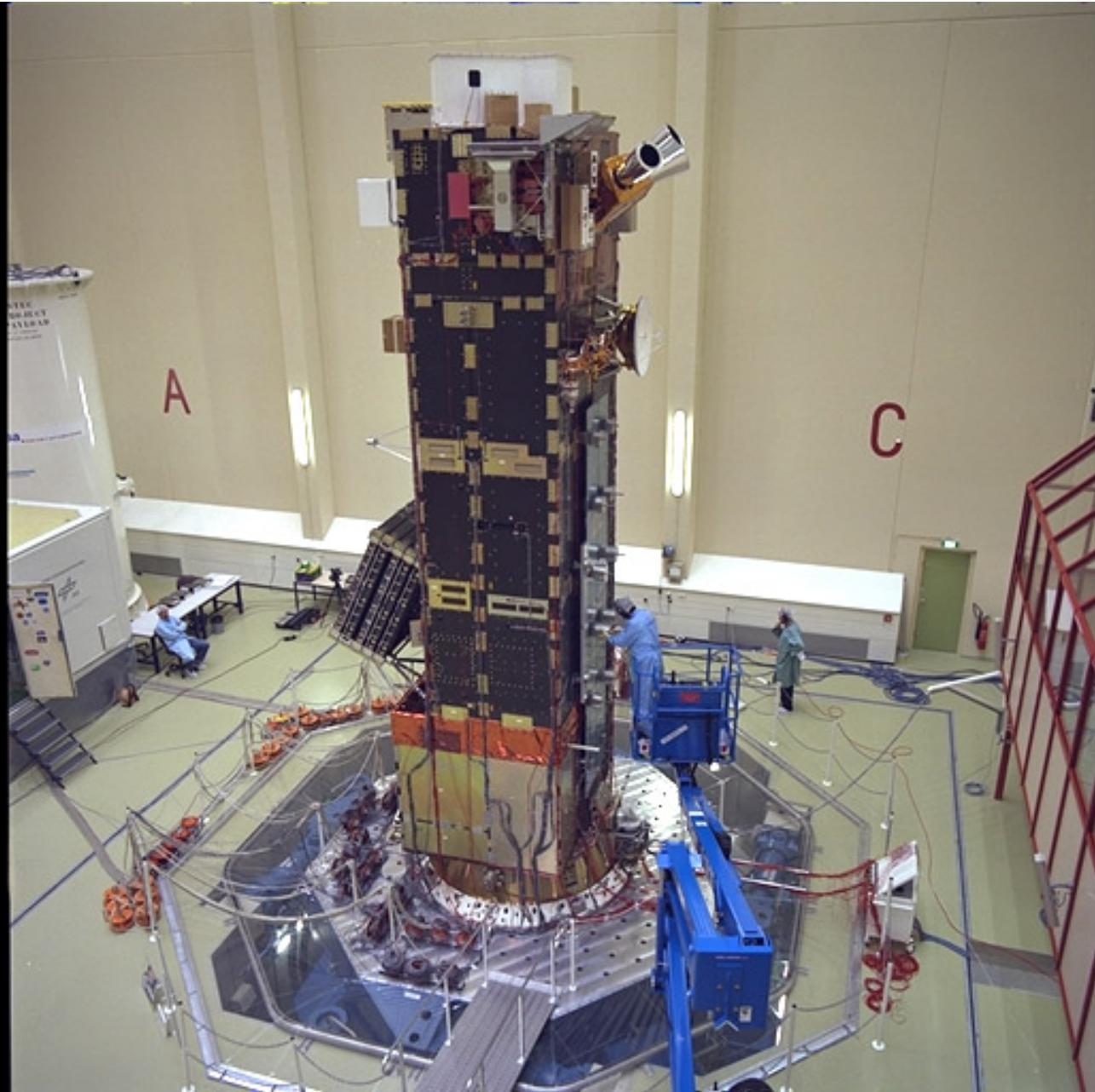


**TOP SECRET**



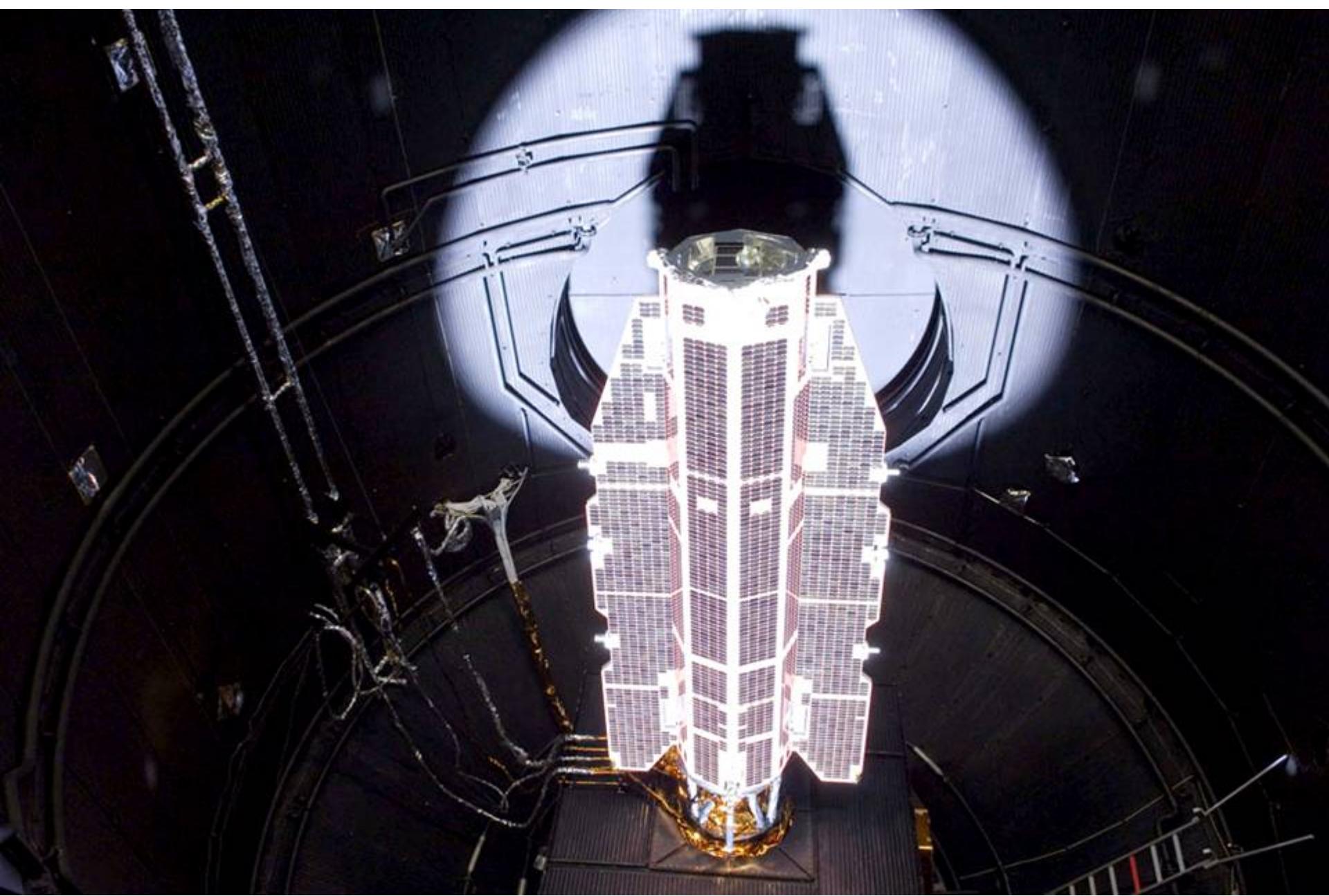














# Metrology Laboratory

## Metrology Capabilities:

- Mechanical positioning and alignment
- Optical alignment
- Laser interferometry
- Interface checks and 3D measurements
- Thermal-vacuum 3D measurements
- Spacecraft alignment (theodolite and laser tracking)
- Design of custom build test set-ups and test execution
- Strain and stress measurement
- All-round metrology (mass, length, height, angle, roundness etc.)



# Metrology Laboratory

## Metrology Capabilities:

- Reverse engineering
- Measurement simulation
- Measured data analysis
- Metrology consultancy
- Support on- and off-site
- ISO 17025 accreditation :
  - roughness
  - flatness
  - angular measurements
  - spacecraft alignment with theodolites and with laser tracker

