

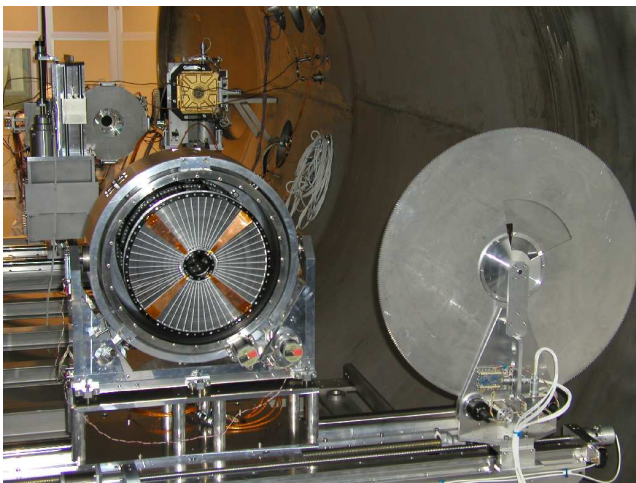


The PANTER X-ray Test Facility

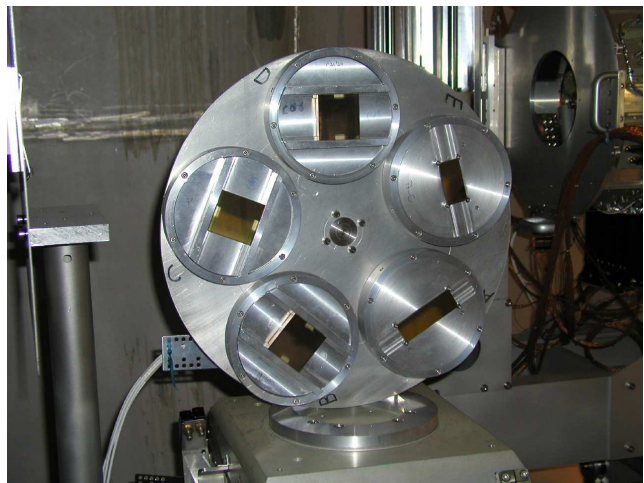


The PANTER facility is located in Neuried in the southwest outskirts of Munich. With its 130 m long vacuum tube (1 m diameter) and the X-ray source system and the main test chamber (3.5 m \varnothing , 12 m long) it has mostly been used for the characterization of X-ray telescopes as well as tests of detectors, focal plane instruments, reflection gratings, filters, etc.

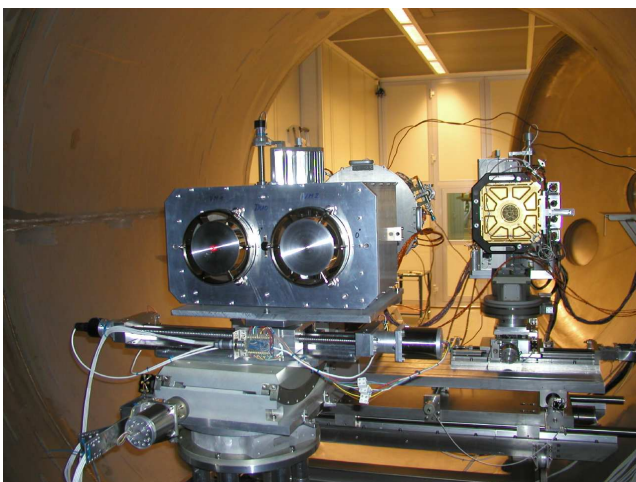
Recent activities are e.g. accompanying and supplementary calibrations and tests for the EPIC-pn camera onboard of XMM-Newton, measurements for the proposed DUO and ROSITA missions, tests of mirrors for the Astro-E2 mission, and tests of multi-layer mirrors for future projects.



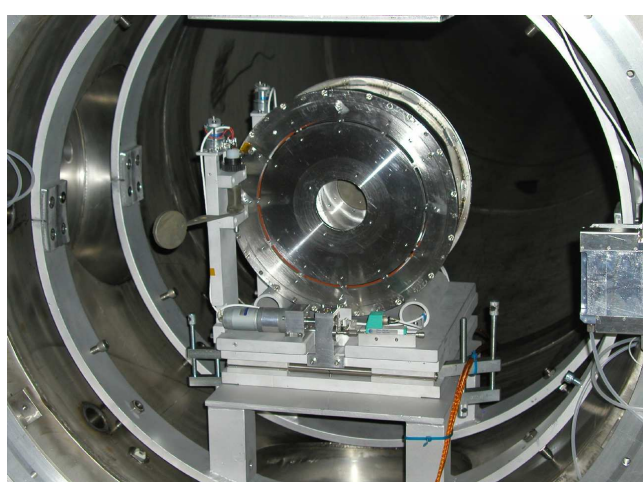
Astro-E2 mirror module (left) with PSPC and EPIC-pn focal plane instruments (back) and mask for selected illumination (right)



Two contamination probes from the International Space Station for the ROSITA project (right) and three plane mirror probes for DUO (left)



DUO dual mirror box (left) with single shell mounted in each box, with ROSAT PSPC (right)



Multi-layer mirrors with 16 m focal length mounted inside vacuum tube

The PANTER team