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Séminaire du LCPMR

Séminaire de l'Institut Parisien de Chimie Physique et Théorique (IP2CT)

Development of the X-ray Timing and Polarization telescope optics

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X-ray Timing and Polarization (XTP) satellite, which uses focusing optics and advanced detector technology, is dedicated to the study of black holes, neutron stars, quark stars and the physics under extreme gravity, density and magnetism. With a detection area of ~1 square meter, XTP will make the most sensitive temporal and polarization observations with good energy resolution in the 1-30 keV photon energy range. A recent overview on segmented glass optics for XTP Telescope is presented. The figure of the free-standing thin glass substrates, quality of grazing incident depth-graded multilayers and a mounting technology for the telescope has been improved. The metrology on glass figure, X-ray reflectivity and scatter of grazing incident depth-graded multilayers, and mounted structured optics will be shown. We also describe the plan for a prototype telescope to be constructed in the upcoming year.

Mardi 17 février 2015 à 15h30

Amphithéâtre Jean Perrin

Laboratoire de Chimie Physique – Matière et Rayonnement

ATTENTION : horaire inhabituel, 15h30