

## MXT Optical Module



### Overview

The MXT is composed by an optical module based on 40 mm sized micro-channel plates, making a so-called micro-pore optics (MPO), coupled to a focal plane camera equipped with an X-ray sensitive pnCCD. 2 and 10 KeV), from the very beginning of their afterglow emission. The main goal of the MXT instrument is to precisely localize and physically characterize the early phases of the X-ray afterglows detected by the. The Microchannel X-ray Telescope is a small and compact focusing instrument that will be flown on the Sino-French mission SVOM (to be launched in 2021) dedicated to Gamma-Ray Bursts (GRBs) studies, time domain and multi-messenger astronomy. This research addresses the critical. The X-ray telescope MXT, one of the two instruments under French responsibility onboard the SVOM Chinese-French satellite payload, has just completed an important step in the project's progress, the calibration of the complete flying instrument. The launch is planned in 2021 by a LM-2C rocket. The main SVOM general objective is the survey of Gamma Ray Bursts, in coordination with ground telescopes. The other main on board instruments.

## Article Content

### OPTICAL MODELS OF MXT USING ZEMAX

MXT is composed by five main subsystems: an optical module based on square micro-pore optics (MPOs), a camera, a carbon fibre structure, a data processing unit and a radiator (see Fig. 1).

Design and in-orbit calibration of the MXT optics

Using specific target sources, the in-orbit calibration of the optic is here described, and compared to the extensive on-ground calibration, which was carried out at the PANTER test facility,

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Optical models of MXT using Zemax

The Microchannel X-ray Telescope (MXT) is a soft X-rays instrument on board SVOM, a Sino French mission. The launch is planned in 2021 by a LM-2C rocket. The main SVOM general objective is the

The Microchannel X-ray Telescope on board the SVOM mission: in

The main goal of the MXT instrument is to precisely localize and physically characterize the early phases of the X-ray afterglows detected by the SVOM ECLAIRS coded mask telescope

Calibration of a fully populated lobster eye optic for SVOM

The MXT's main goal is to precisely localize, and spectrally characterize X-ray afterglows of Gamma-Ray Bursts. The MXT is a narrow-field-optimised lobster eye X-ray focusing telescope comprising an

The MXT X-ray Telescope on board the SVOM mission

It will be composed by five main subsystems, an optical module (M-OP) based on square micro-pore optics (MPOs), a camera (M-CAM), a carbon fibre structure (M-ST), a data processing unit (M-DPU),

SVOM-MXT optic and telescope testing at PANTER

The Microchannel X-ray Telescope (MXT) for the Space-based multi-band astronomical Variable Objects Monitor (SVOM), a Franco-Chinese mission (CNES/CNSA), is designed for the soft X-ray

Design and in-orbit calibration of the MXT optics

The Microchannel X-ray Telescope (MXT) represents a novel approach to space-based X-ray astronomy, serving as one of four primary instruments aboard the Space-based multi-band

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Spectral performance of the Microchannel X-ray Telescope on

The MXT is a compact and light X-ray telescope focusing photons in the 0.2-10 keV energy band. It will be able to detect and localize (within a few tens of arc seconds) the majority of GRBs, including

Transceivers

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MXT ready to go

It is one of the four instruments making up the payload of the SVOM (Space based multi-band astronomical Variable Object Monitor) satellite. The innovative MXT telescope will use for the

Re: how to connect optical SFP module to imx28 MCU?

Hello gentleman, does anybody know how to connect optical SFP module (125MBit) to imx287 MCU with MII MAC? i found, that standard PHY LAN8720 can't be used for that, so looks like

MXT in the spotlight of Panter - Svom

The MXT Performance Model successfully tested at MPE Panter X-ray beam facility A campaign dedicated to the verification and validation of the performance of the

The MXT and the lobster eye - Svom

The truly innovative MXT concentrator developed to study GRBs is a system inspired by biology. Crustaceans of the order of decapods, such as the lobster and crab,

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