

The solar X-ray detector (SXD), one of the two major scientific payloads onboard the MSS-1B, has obtained a large amount of solar X-ray radiation data, which reveals the distribution law of ...

Abstract: The solar X-ray detector (SXD) onboard the Macao Science Satellite-1B was designed to monitor solar flare bursts and to study the solar activity in the 25th solar cycle. The SXD includes two parts: a soft X-ray detection unit and a hard X-ray detection unit. Both the

Design of the solar X-ray detector for the Macao Science Satellite-1B (doi: 10.26464/epp2023018) 131 ZhiEn Cheng, Kai Tang, ZhongPing Zhang, HaiFeng Zhang, Pu Li, and MingLiang Long Design and analysis of the Macao Science Satellite-1's laser retro-reflector array (doi: 10.26464/epp2023008)

Abstract [Background] The solar X-ray detector (SXD) is the main scientific instrument onboard the Macao Science Satellite-1B (MSS-1B). It consists of two parts--a soft X-ray detection unit ...

Satellite B is equipped with payloads like high-energy particle detectors and solar X-ray instruments to obtain space environment data. Macao Science 1 has the capability to complement the observations made by Europe's Swarm satellites and China's first seismo-electromagnetic satellite, Zhangheng 1.

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In Macao, a company known as Melco, has collaborated with local SMEs in the development of the largest solar power plant in Macao. The project installed more than 18,000 solar PV panels spanning a total of nearly 30,000 square meters of rooftop space. This project is capable of producing up to 7.7 million kWh of energy on an annual basis (or ...

Macao science Satellite-1 mainly aims to obtain the information of different layers of the Earth's system in the South Atlantic by detecting the geomagnetic anomaly area. MSS-1-A; MSS-1-B; ... The Solar X-ray Detector (SXD), developed by ...

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The Solar X-ray Detector (SXD) on-board the Macao Science Satellite-1B (MSS-1B) was successfully launched via the Chinese Long March-2C rocket on 21 May 2023, and commenced operations in early June of the same year. The MSS-1B/Soft X-ray Detection Units (SXDUs) employ two silicon drift detectors (SDDs), providing a wide range of energy spectra spanning ...

DOI: 10.26464/epp2023018 Corpus ID: 255216245; Design of the solar X-ray detector for the Macau Science Satellite-1B @article{Shi2023DesignOT, title={Design of the solar X-ray detector for the Macau Science Satellite-1B}, author={Yongqiang Shi and Liansheng Li and Jianwu Chen and Fuchang Zuo and XiaoPing Zhang and Zhiwu Mei and Li Wang and Keke Zhang}, ...

system has never before been seen in Macau, and through the ongoing partnership with Melco, our company has gained valuable knowledge and on-the-field experience to establish its foundation as a forerunner in the area of sustainable energy." Melco Resorts & Entertainment has teamed with a local SME to develop Macau's largest solar power system.

The images were monitored by a solar X-ray extreme ultraviolet imager and a solar spectral irradiance monitor attached to the FY-3E satellite. Researchers can better monitor and predict solar activity levels by the newly released images, said Zhang Peng, deputy director of the National Satellite Meteorological Center (NSMC).

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