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Mikhail Gubarev, B. Ramsey, Steve O'Dell, R. F. Elsner ...+7 more authors

Institutions: University of Alabama in Huntsville, Universities Space Research Association

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Development of mirror modules for the ART-XC instrument aboard the Spectrum-Roentgen-Gamma mission

Mikhail V. Gubarev, Brian Ramsey, Stephen L. O'Dell, Ronald F. Elsner, Kiranmayee Kilaru, NASA Marshall Space Flight Ctr.

Carolyn Atkins, The Univ. of Alabama in Huntsville

Mikhail N. Pavlinskiy, Alexey V. Tkachenko, Igor Y. Lapshov, Space Research Institute

Abstract

The Marshall Space Flight Center (MSFC) is developing x-ray mirror modules for the Astronomical Roentgen Telescope- X-ray Concentrator (ART-XC) instrument on board the Spectrum-Roentgen-Gamma Mission. ART-XC will consist of seven co-aligned x-ray mirror modules with seven corresponding CdTe focal plane detectors. Each module provides an effective area of 65 cm² at 8 keV, response out to 30 keV, and an angular resolution of 45 arcsec or better HPD. We will present a status of the ART x-ray module development at MSFC.