

I N T E G R A LScience Data Centre



UNIVERSITÉ DE GENÈVE

ASTROPHYSICS SEMINAR



Thursday, 28 October 2004 at 11:00

The Hard X-ray Modulation Telescope

Jianfeng Zhou Center for Astrophysics, Tsinghua University, China

Abstract. The Hard X-ray Modulation Telescope (HXMT) is a collimated hard X-ray (20-200 keV) telescope with high sensitivity and spatial resolution. It will perform an all-sky hard X-ray survey, in which about 1000 new hard X-ray sources would probably be discovered, as well as sensitive pointed observations of important cosmic X-ray sources including black holes and neutron stars.

HXMT is based on the direct demodulation (DD) method and the well developed NaI(Ti)/CsI(Na) phoswich detecting techniques. The Phase A study of the HXMT mission has been jointly supported by the Ministry of Science and Technology of China, the Chinese Academy of Sciences, and Tsinghua University since 2000. So far, all the key technical difficulties of the telescope have been overcome, the ground prototype of HXMT has been constructed, and the balloon borne flight testing has been finished. The platform HXMT will use is that of "Ziyuan II" (Earth Resource II) satellite series. This long-time tested platform meets the requirements of HXMT very well, and there is no key technical difficulty that needs to be surmounted. Therefore, HXMT is ready for development and launch.

Finally, I also would like to say something about the future data center for HXMT.

Additional Information

The seminars are given in the ISDC "Pavillon" building Address: INTEGRAL Science Data Centre, ch. d'Écogia 16, CH-1290 Versoix WWW: ISDC Seminars: http://isdc.unige.ch/index.cgi?Science+seminars