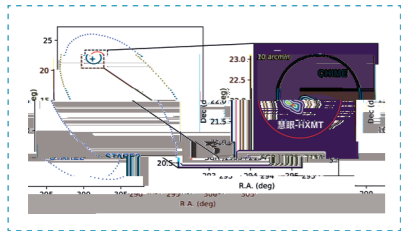




18 flight models of the HE main detectors



detected from a black hole by



Accurate localization of the FRB associated X-ray burst with HXMT.

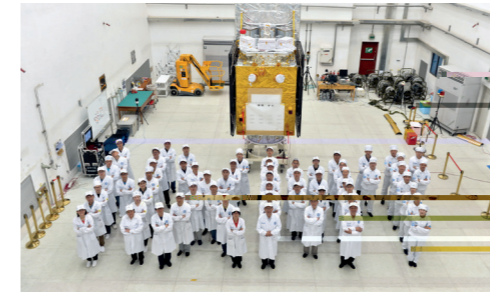
his research group proposed and developed successfully China's first space X-ray astronomy telescope, the Hard X-ray Modulation Telescope (dubbed as *Insight-HXMT*). With the quite unique and important advantages of its wide energy band, large effective area, high time resolution and adequate energy resolution, *Insight-HXMT* opens a new window for the study of hard X-ray timing and spectral properties of black holes and neutron stars, leading X-ray astronomy in China to be a very active and well-recognized field of space science. *Insight-HXMT* discovered the X-ray counterpart associated with the fast radio burst FRB 200428, and identified it as coming from a magnetar. *Insight-HXMT* increased the detection energy of X-ray quasi-periodic oscillations in black hole binary systems by an order of magnitude, and discovered the high-speed jet closest to a black hole. *Insight-HXMT* directly and reliably measured the strongest magnetic field of 0.8 billion Tesla ever observed in the universe.

Outstanding contributors of this research group

As the proposer and the principal investigator (during pre-research and engineering development stages) of HXMT, Prof. Tipei Li put forward the scientific theme of HXMT.

Serving as the current principal investigator of HXMT, Prof. Shuang-Nan Zhang organized the scientific observations of HXMT to obtain many break-through scientific results.

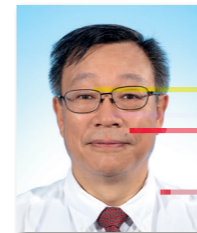
Serving as the project manager of the HXMT scientific payloads, Prof. Fangjun Lu led the technical team to complete the development of the HXMT payloads.



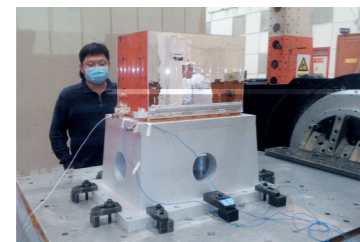
HXMT scientific payloads



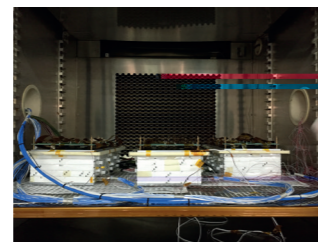
研究集体突出贡献者



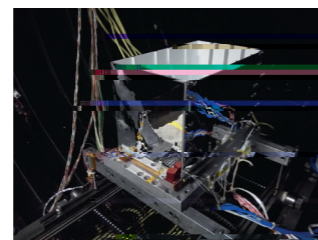
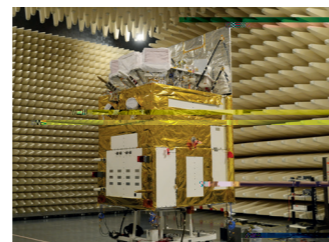
研究集体主要完成者



ME-Box in vibration test



LE-Box in thermal-cycle test



ME-Box in thermal-cycle test

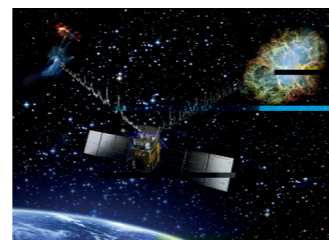


Illustration of the in-orbit demonstration of X-ray pulsar navigation with

慧眼空间天文望远镜研究集体

研究集体主要科技贡献:

	X				
		X			
200428	X		X		FRB
		8			



Ceremony of starting scientific operation of



Group photo of the first anniversary celebration of HXMT in-orbit



HXMT identification of an X-ray burst from a magnetar and with FRB.