Recent Progress of the High-Energy Astrophysics Space Program in China

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Abstract

High-energy space observatories provide a unique window into the most extreme and energetic phenomena in the universe, from accreting black holes and neutron star mergers to the engines powering gamma-ray bursts. Furthermore, in the multi-messenger era, rapid space-based electromagnetic follow-up has become critical for identifying the sources of gravitational waves and high-energy neutrinos. To meet these challenges, China has developed a robust high-energy astrophysics space program. In this talk, I will briefly summarize the recent progress of Chinese space missions operating across the X-ray to gamma-ray regimes. I will highlight active missions, including Insight-HXMT, GECAM, SVOM, and the Einstein Probe (EP), as well as upcoming and proposed observatories such as eXTP, HERD, and MeVGRO. Together, these missions are playing and will continue to play an important role in advancing our understanding of the high-energy universe in the multi-messenger era.

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