The Hard X-ray Modulation Telescope Mission

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ABSTRACT
A dedicated X-ray astronomy satellite, the Hard X-ray Modulation Telescope (HXMT) will be launched in the spring 2017. HXMT is composed of three sets of collimated instruments in 1–10 keV (about 400 cm$^2$), 5–30 keV (about 1000 cm$^2$) and 20–250 keV (about 5000 cm$^2$) respectively. The anti-coincidence detector of HXMT can also be used as a sensitive gamma-ray burst detector between 300 keV to 3 MeV. In this talk, I will describe the instrumentation and scientific program of HXMT, including the Galactic plane scanning survey and monitoring as well as pointed observations of X-ray binaries and pulsars.