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The enhanced X-ray Timing and Polarimetry Mission

Wednesday, 7 July 2021 09:30 (20 minutes)

The enhanced X-ray Timing and Polarimetry Mission – eXTP is a science mission designed to study the state of matter under extreme conditions of density, gravity and magnetism.
Primary targets include stellar-mass and supermassive black holes, isolated and binary neutron stars, and strong magnetic field systems like magnetars.
In addition to investigating fundamental physics, eXTP will be a very powerful observatory for astrophysics that will provide observations of unprecedented quality on a variety of galactic and extragalactic objects and will be highly instrumental to detect electro-magnetic counterparts of gravitational wave sources.
The mission carries a unique and unprecedented suite of state-of-the-art scientific instruments enabling for the first time ever the simultaneous spectral-timing-polarimetry studies of cosmic sources in the energy range from 0.5-30 keV (and beyond).
The program is led by the Chinese Academy of Sciences and universities in China, the eXTP international consortium includes major institutions in several European countries. The planned launch date of the mission is in 2027.

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