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Probing the strong magnetic field in astrophysics with eXTP

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Strongly magnetized high energy astrophysical objects, including a variety of pulsars and magnetars, are expected to produce high degree of X-ray polarization, which can be used to diagnose the magnetic field, emission mechanism, and geometry of the objects, and also test the fundamental physics. In this talk, I will present possible science cases that the enhanced X-ray Timing and Polarimetry (eXTP) mission can do with these systems.

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