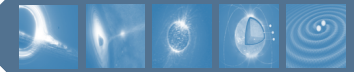


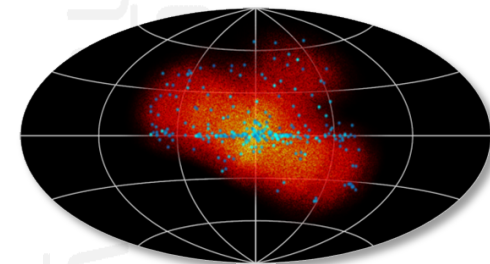
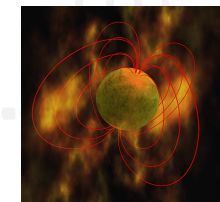
- ❑ eXTP is a flagship mission of the Chinese Academy of Sciences, with a large participation of a European Consortium (IT, ES, DE, CH, FR, CZ, PL, NL, DK, AU, TR). The mission is currently undergoing its Phase B study and the launch is planned in late 2020's (nominally 2027). The mission is not adopted in China yet.
- ❑ Two out of 4 instruments are under the European responsibility. Italy (INAF) leads the Large Area Detector and contributes to the other 3 instruments.
- ❑ All European partners are supported at national level to complete Phase B. No commitment for the later phases yet.
- ❑ Full support and funding from ASI for Phase B, including an industrial Prime Contractor. Full programmatic support for the mission implementation.
- ❑ An ESA MoO is under consideration but currently on hold due to the impossibility to travel to China and to the lack of a clear statement of approval from the Chinese partner.

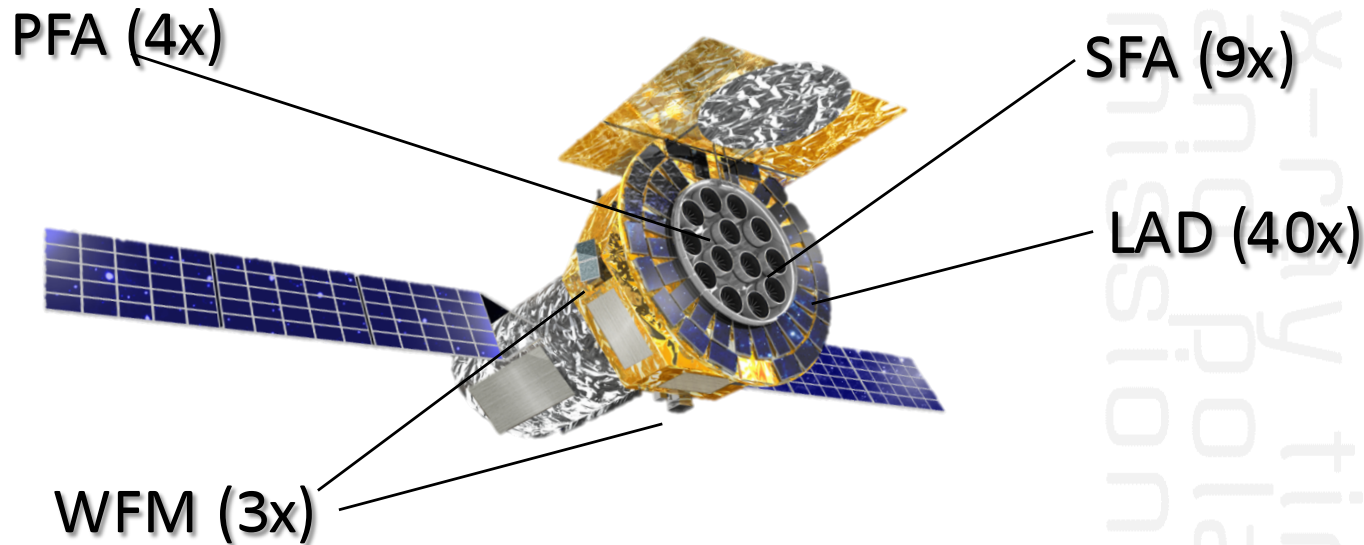
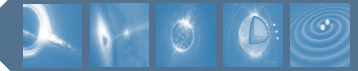






eXTP is proposed as an X-ray observatory open to the worldwide scientific community. It will study the matter under extreme conditions of gravity, density and magnetism. For the first time: simultaneous, high-throughput spectral, timing and polarimetry observations.

Science drivers:

- Constrain the **Equation of state** of the supra-nuclear density matter in the interior of neutron stars.
- **Accretion** physics in the **strong-field** regime of **gravity** and tests of General Relativity in neutron stars and black holes over the mass scale.
- Physics of light and matter in the presence of **ultra-strong magnetic fields** in magnetars and X-ray pulsars.
- Multi-purpose **observatory** and wide-field monitoring for transients and e.m. counterparts of GWs. Rapid autonomous follow-up.





	Payload	Configuration	Eff. area (m ²)
	Spectroscopy Focusing Array (SFA)	9 telescopes	0.4 m ² @6keV
	Large Area Detector (LAD)	40 modules	3 m ² @8keV
	Polarimetry Focusing Array (PFA)	4 telescopes	500 cm ² @2keV
	Wide Field Monitor (WFM)	6 cameras	3.2 Sr (FOV)

