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The new era of extragalactic Fast X-ray Transients

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Extragalactic Fast X-ray Transients (FXTs) are X-ray flashes lasting minutes to hours. Their nature is unclear, but the most remarkable scenarios related to them are shock breakout supernovae, tidal disruption events involving white dwarf stars and intermediate massive black holes, and binary neutron star mergers. Observing them using different wavelength facilities in the coming hours and days after the X-ray emission is essential to understand their nature. In this talk, I will discuss the most important results of FXTs (e.g., energetics, host galaxies, and progenitors) detected by Chandra and XMM-Newton (identified through mining data methods), as well as the last detections done by the Einstein Probe mission and their novel multi-wavelength detections.

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