



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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Transient sources in the XMM-Newton catalogue

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XMM-Newton's large field of view and excellent sensitivity have resulted in hundreds of thousands of serendipitous X-ray detections, all publicly available in the latest version of the catalogue, 3XMM-DR8. Amongst these detections, many variable sources have been identified, including gamma-ray bursts, cataclysmic variables, supernova, magnetars, X-ray binaries and tidal disruption events. I will present new and rare variable sources identified in the catalogue. I will also present some innovative methods being developed to identify new transients rapidly, as well as presenting the forthcoming catalogue version, 4XMM-DR9.

Topic

Multi-messenger and transient astronomy

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