Erwan Quintin

Organization: Institut de Recherche en Astrophysique et Planétologie (CNRS/IRAP)
Position: Post-doc

Erwan did his PhD at IRAP, Toulouse, under the supervision of Natalie Webb. His work has focused on the search and study of rare X-ray-variable objects, as part of the WP5.

Indeed, the X-ray sky is rich with extreme and transient phenomena that are still poorly understood, their rarity preventing us from constraining the various models. His work has aimed at increasing the available sample of various X-ray transient objects, including tidal disruption events (the destruction of a star around a black hole) and quasi-periodic eruptions (mysterious repeated 1h-long outbursts), by looking for them among serendipitous sources in X-ray observations.

With this aim, he built an archival multi-instrument X-ray catalogue. This catalogue is first used in a quasi-real time transient detection system, the STONKS pipeline, allowing to quickly react to the detection by XMM-*Newton* of new long-term transient events. This catalogue has also been used to reveal yet-unnoticed transients lying in the decades-old archives. He also worked on EXOD, a detection system for short-term transient events.

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