## Enhancing γ/X-ray Transients and Multi-Messenger Discovery: The SVOM/ECLAIRs Offline Trigger Pipeline

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The successful launch of the SVOM mission on June 22, 2024 marks a milestone in the advancement of transient and multi-messenger astronomy. ECLAIRs, the onboard coded-mask  $\gamma$ /X-ray imager, autonomously detects Gamma-Ray Bursts and other high-energy transients across a wide field of view (~2 sr) in the 4–150 keV energy range. To complement the onboard detection capabilities, we have developed an Offline Trigger (OFT) pipeline to conduct deeper and more flexible searches using photon data as soon as they are received on the ground. Unconstrained by onboard limitations, the OFT leverages instrumental context and enhanced computing resources to improve sensitivity in blind searches. It also incorporates targeted searches, enabling the recovery of high-energy counterparts to external multi-wavelength and multi-messenger alerts with arcminutes' localization—crucial for coordinated follow-up efforts. In this talk, I will outline the OFT pipeline architecture, which runs multiple detection algorithms in parallel. I will also present early results from in-flight ECLAIRs data, with a focus on targeted searches and their role in advancing  $\gamma$ /X-ray transient discovery within the multi-messenger framework.