

Celebrating 20 years of Swift Discoveries



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The GRB quick analysis pipeline of SVOM ECLAIRs and GRM

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The SVOM (Space-based multi-band astronomical Variable Objects Monitor) observatory is dedicated to the exploration and progress of Gamma-Ray Burst (GRB) science. The two wide field of view instruments on board the satellite –ECLAIRs and GRM –are currently monitoring the transient sky and detecting GRBs in both X- and gamma-ray energy bands (from 4 keV to 5 MeV, jointly). In addition to GRB onboard position and alert time which are publicly broadcasted in real time by the SVOM French Science Center (FSC), quick scientific products are generated by the eclgrm-vhf pipeline from the ECLAIRs and GRM count light curves that are immediately transmitted to the ground through a VHF channel. In this work, we present the architecture of the eclgrm-vhf pipeline running at FSC, and the computation of these scientific products (durations, peak fluxes, ground significance, hardness ratios, event classification), which will be made public following each GRB alert.

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