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The SVOM mission in the multi-messenger era

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SVOM (Space-based multiband astronomical Variable Objects Monitor) is a Sino-French mission dedicated to the time-domain astronomy. SVOM is a highly versatile satellite to be launched in 2021, with built-in multi-wavelength capabilities, autonomous repointing and dedicated ground follow-up. The SVOM core program focuses on the detection, the localization and the characterization of the prompt emission of Gamma-Ray Bursts and the GRB afterglow in multi-wavelength, including those which are highly redshifted.

SVOM plays a role in the multi-messenger area thanks to its potential to follow transient triggers on the ground and in space from other facilities including gravitational waves alerts.

During the presentation, I will review the different instruments on-board SVOM and on the ground, and their performance. I will also present the SVOM follow-up strategy to respond to transient triggers: I will show the first observation results of SVOM/Mini-GWAC in case of GW alerts.

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