

Joint studies of the Gamma-ray Bursts phenomena with the SVOM mission and the Vera Rubin Observatory

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The current decade will see the renewal of the ground and spaced based facilities that continuously observe the transient sky at any wavelength. In particular, in 2023, the French-Chinese mission SVOM will pursue the multi-wavelength (messenger) study of the explosive transient sky initiated 15 years ago by the NASA/Swift mission with a core program dedicated to the Gamma-ray Bursts (GRBs). In the same period, the Vera Rubin observatory will deeply explore the optical transient sky with millions of alerts to be delivered every night. Among those Vera Rubin transients, a significant number of optical afterglows emission from cosmological GRBs should be detected every year. Therefore, scientific synergies can be envisioned between the two projects to fully characterize these (still) enigmatic events. The recently selected Fink broker will provide the necessary bridge to connect the SVOM high-energy alerts and the Vera Rubin transient candidates together. In this talk, we present how the SVOM Collaboration and the Vera Rubin observatory could be complementary for studying the Gamma-ray Bursts as well as the first implementations done in Fink to make those synergies come true !

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