

TOULOUSE  
SPACE  
SHOW '18  
June 26-28, 2018



## **The SVOM Mission The Deep and Transient Universe: New Challenges and Opportunities**

Thursday 28 June 2018, 10:30 - 12:30  
Room: Guillaumet 2

- Welcome speech and introduction of Speakers by Marie-Anne Clair
- A new look at the most extreme astrophysical phenomena by Peter Von Ballmoos (IRAP) :
  - Four hundred years after the invention of the optical telescope, we are experiencing another unique moment in Astronomy. Besides observing the Universe through a growing number of "electromagnetic windows" from radio waves to gamma rays, three completely new astronomies have recently become accessible: Gravitational Waves, Neutrinos and Ultra-High Energy Cosmic Rays are about to transform our understanding of most extreme astrophysical phenomena. One of the major challenges of our time is to establish the link between discoveries of the new Astronomies and the electromagnetic Universe. In this presentation, we will show that Gamma-Ray astronomy, which excels in exploring the most violent places in the Universe, is the natural connection to the new Astronomies.
- The SVOM mission by Bertrand Cordier (CEA)
  - We will present the SVOM mission that the Chinese National Space Agency and the French Space Agency have decided to jointly implement for a launch target in 2021. SVOM has been designed to detect, characterize and quickly localize gamma-ray bursts and other types of high-energy transients. In the context of the multi messenger quest, we will present the observation strategy we plan to perform in order to maximize the detection of electromagnetic counterparts to gravitational wave sources.