

Jeudi 15 juin 2023 à 11h (IAS, bâtiment 121, salle 1-2-3)

First results from the EUI & SPICE instruments onboard the Solar Orbiter mission

Frédéric Auchère, Cydalise Dumesnil et Anne Philippon (IAS)

After three years in orbit and 18 months into the nominal mission phase, we present a selection of data and results from the EUI & SPICE instruments. IAS is co-PI of EUI, led the development of its wide-field channel, and provided the optics, mounts and filter wheels. IAS also provided the grating assembly for SPICE. During the first perihelion passage below 0.3 AU, EUI obtained the best-ever images of the solar corona at EUV wavelengths and discovered ubiquitous tiny eruptions that are suspected to be responsible for the million degree temperature of the solar corona. SPICE is now providing crucial spectroscopic observations of these events to confirm this hypothesis. Measurements of the chemical composition by SPICE are also used as tracers to identify the sources of the solar wind.