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EUI onboard Solar Orbiter: unique data for high resolution, far corona and connection science

The Extreme Ultraviolet Imager (EUI) onboard Solar Orbiter is composed of three telescopes, the Full Sun Imager (FSI), and two High Resolution Imagers observing in EUV (HRIEUV) and Lyman-alpha (HRILYA). EUI observes the Sun from the smallest features at the base of the corona and in the chromosphere up to the largest scales in the extended corona.

EUI observations are indispensable for heliospheric connection science as they provide essential information about coronal source regions of eruptive events and solar wind. FSI reveals structure and evolution of the corona to unprecedented distances from the Sun (transients being tracked up to 6 solar radii).

EUI's unparalleled spatial and temporal resolution at perihelion naturally leads to discovery of new structures at previously inaccessible scales such as campfires, picojets, and the smallest decayless kink waves observed to date.

This poster aims to show researchers the way to EUI observations and data analysis. The reader is directed to the latest EUI Data Release, tools and overviews, and kindly invited to become part of the EUI community, facilitated by EUI's open data policy and fast data availability. A particularly effective way to join the EUI community is the Guest Investigator Program of the Royal Observatory of Belgium (ROB), which allows selected researchers to spend a few weeks with the EUI, PROBA2/SWAP or PROBA2/LYRA PI team in Brussels to obtain expert knowledge on the instrument, to participate in observation planning according to the needs of their proposal, and to conduct their research in collaboration with ROB scientists.

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