

An update on The Large Interferometer for Exoplanets (LIFE)

The Large Interferometer for Exoplanets (LIFE) is a European- lead international project with the goal of consolidating various efforts and defining a road map that leads to the launch of such a space-based mid-infrared nulling interferometer (Quanz et al. 2018, 2019, 2022). This mission will be designed with the capability to investigate the atmospheric properties of a large sample of (primarily) terrestrial exoplanets. LIFE directly addresses the scientific theme of detecting and characterizing temperate exoplanets in the MIR, which was recommended with “highest scientific priority” by ESA’s Voyage 2050 Senior Committee report 11 as a candidate topic for a future L-class mission in the ESA Science Programme.

In this presentation we will provide an update of the main preparatory activities of the different working groups both on the science side and technological side. It will be an opportunity for the French community to count its forces and express interests for future implications and instrumental developments.