

ARIEL's WG on Upper Atmospheres and Star-Planet Interactions

Our WG serves as a communication channel for all those in the ARIEL Consortium interested in exoplanet upper atmospheres and star-planet-interactions. This includes, but is not limited to, the investigation of: 1) mass loss and planetary evolution, and their implications on the ARIEL targets; 2) the evolutionary constraints that could be obtained from selected targets, and how those constraints could be used to the general population of ARIEL targets; 3) the prospective detection of SPI, and the constraints that this could set on e.g. magnetic fields; 4) the response of the atmospheres to stellar fluxes over different time-scales. The presentation will give a brief summary of some of these possibilities, and the activities covered by our WG.