



EPSC Abstracts

Vol. 14, EPSC2020-898, 2020

<https://doi.org/10.5194/epsc2020-898>

Europlanet Science Congress 2020

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A comparison analysis for the determination of stellar parameters of Ariel targets

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Ariel has been selected as the next ESA M4 science mission and it will observe the atmospheres of a large and diversified population of transiting exoplanets. Key factor for the achievement of the scientific goal of ARIEL is the selection strategy for the definition of the input target list. A meaningful choice of the targets requires an accurate knowledge of the planet hosting star properties and this is necessary to be obtained well before the launch.

We present the results of a bench-marking analysis between three different spectroscopic techniques used to determine stellar parameters for a selected number of targets belonging to the Ariel reference sample.

Our goal is to consolidate a method that will be used to homogeneously determine the stellar parameters of the complete Ariel reference sample.