



THE PROPERTIES OF THE STARS IN THE PLATO P2-SAMPLE

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High-resolution spectroscopy of the PLATO P2-sample

A key element of the mission is the seismic characterization of the host stars. Particularly important is the seismic analysis of the P2-sample. **The aim of our project is the spectroscopic characterisation of the P2-sample.**

The P2-sample contains F5-K5 main-sequence and sub-giant stars brighter than 8.5 mag.

Fig.1 shows that HRD for the 887 stars the PLATO input catalogue (PIC). For the 887 stars The 47 known planet host stars are encircled.

Fig. 2 shows the HRD derived from the spectra for the 471 stars already analysed.

Fig. 3 shows the rotation velocity of the stars. The dashed cures include the SB2, the full curves are without SB2s. The label “grd” are for MARCS stellar models, and “synth” for ATLAS. Note that > 20% of the stars in the P2-sample are SB2!

