Time-averaged spectral orders and hot PHOENIX model. 2D echelle orders to be cross-correlated Normalised flux 1.0 1.0 0.5 1D spectrum to be cross-correlated 400 450 500 550 600 650 Wavelength (nm) CCF between data with PHOENIX and telluric models Fits of stellar line centroid Evolution/drift of stellar centroid RV (S1D) Evolution/drift of stellar centroid RV (E2DS) 1.04 1.1 -First -24.2Middle Last -601.02 --24.4E2DS centroids of star -80 Barycentric RV (inv. & offset) -24.61.00 -100-24.8S1D centroids of star Barycentric RV (inv. & offset) 0.9 0.98 Mean flux 8.0 -500 500 50 -100020 30 40 50 20 30 40 Radial velocity (km/s) Exposure number Exposure number Fits of telluric line centroid Evolution/drift of telluric centroid RV (E2DS) Evolution/drift of telluric centroid RV (S1D) E2DS centroids of tellurics S1D centroids of tellurics Barycentric RV (inv. & offset) Barycentric RV (inv. & offset) 0.4 0.7 0.2 0.2 8.0 2D orders w. PHOENIX 0.0 2D orders w. TELLURIC First 0.6 0.0 1D spectra w. PHOENIX Middle 1D spectra w. TELLURIC 0.6 Last -400-200200 400 -1010 20 10 20 30 40 50 10 20 30 40 50

Exposure number

Exposure number

Radial velocity (km/s)

Radial velocity (km/s)