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Radial velocities with GIANO-B, the NIR spectrograph at TNG

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The NIR high resolution spectrograph GIANO, working in the wavelength range from 0.97 to 2.45 microns at a resolution of 50,000, was installed and commissioned at the Nasmyth-A focal station of the TNG in 2014. Through the GIARPS project, aimed to the simultaneous use of GIANO and HARPS-N spectrographs, GIANO was moved to the Nasmyth-B (re-naming the instrument GIANO-B) and modified in its configuration. This also provided a significant improvement in the instrument performances. GIANO-B, together with HARPS-N, is carrying out a radial velocity survey searching for and characterising Hot Jupiters around young stars. We present the GIANO-B RV performances and the results obtained during the first year of observations.

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