RADIAL VELOCITIES INVESTIGATIONS OF TWO OBJECTS IN COLLINDER 394 GALACTIC OPEN CLUSTER: HD 174403 AND BB SGR I.A. Usenko¹, A.M. Miroshnichenko², S. Danford² & V.V. Kovtyukh³

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We present the results of the spectroscopic two remarkable objects in the open cluster observations of Collinder 394: post-MSTO object HD 174403 that is an eclipsing binary V4088 Sgr, and Cepheid BB Sgr. More than twenty spectra of HD 174403 during June-September of 2021 and 16 ones for BB Sgr during 2019-2020 summer seasons have been obtained at the 0.81m telescope of the Three College Observatory (TCO, North Carolina, USA) . These spectra were used to determine the radial velocities (for HD 174403 and BB Sgr) and effective temperature (for BB Sgr). For the HD 174403 we were able to establish for the first time the exact orbital period of eclipsing binary near 26 days. The mean effective temperature of 5677 K have been determined for the BB Sgr. Moreover, according to radial velocity measurements, BB Sgr shows an spectroscopic companion's presence.