V473 LYRA: SPECTROSCOPIC DETERMINATIONS OF EFFECTIVE TEMPERATURES AND ABSOLUTE STELLAR MAGNITUDES IN VARIOUS PHASES

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In my report I would like to present a new spectroscopic research of the unique Cepheid V473 Lyra in 33 pulsation phases. It is based on high-resolution, high signal-to-noise echelle spectra which were obtained with ELODIE at 1.93m telescope of OHP (1994-1995 observational series). The extremely high precision of the effective temperature determination (10-30 K) is achieved by using the line-depth ratio method (Kovtyukh, 2007). Also the absolute magnitudes are achieved by using a new method based on line-intensity ratios (suggested by Kovtyukh and Chekhonadskikh, 2008). Presumably, the accuracy of luminosity determination is estimated as 0.2-0.3 mag. Pulsation modes are still discussed.