

## Abstract

Using multiple red spectra of the eclipsing binary V1143 Cyg obtained between the years 2015 and 2017 at the Observatory of Ondřejov and in 2008 and 2009 at the Lick observatory in USA, we calculated a more recent orbital solution using the method of Fourier spectra disentangling. These new data, in addition to previous spectroscopic and photometric measurements, span an observation period of almost a hundred years. Since this binary star is remarkable due to its high orbital eccentricity, along with classical, a significant relativistic apsidal motion is present. Using the software PHOEBE and available data we calculated the value of the total apsidal motion as  $9,8(3).10^{-5}$  deg.d<sup>-1</sup>, which is in good agreement with previous works.