

THE ECHELLE SPECTRA OF SW LAC

Hakan V. ŞENAVCI¹, Berahitdin ALBAYRAK¹, Selim O. SELAM¹, Cemal AYDIN¹

ABSTRACT

In this study the reduction results of Ech lle spectra of the W UMa type eclipsing binary SW Lac obtained during the nights of 11 – 12 September and 06 October 2007 at T B TAK National Observatory (TUG) by using 9 + 11 grisms with TFOSC spectrograph attached to RTT150 telescope were given. Moreover, H α line profiles of spectra obtained for different orbital phases were modelled by using the STARMOD software developed by Montes (1995) and the preliminary results about the activity level of the system is discussed.

Keywords: Eclipsing binary stars, spectral analysis, stellar activity, SW Lac

¹ Ankara University, Faculty of Science, Astronomy and Space Sciences Department, TR-06100 Tandogan-Ankara, TURKEY
e-mail address: volkan@astro1.science.ankara.edu.tr