


H{alpha} observations of LSI+61 303 : J/A+A/559/A87

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**H{alpha} observations of the gamma-ray-emitting Be/X-ray binary LSI+61 303 orbital modulation, disk truncation, and long-term variability. (2013)**  
Go to the original article (10.1051/0004-6361/201321991) (<https://doi.org/10.1051/0004-6361/201321991>)

**Keywords** : stars individual: LSI+61 303 - stars: winds, outflows - stars: emission-line, Be - X-rays: binaries

**Abstract:**We report 137 spectral observations of the H $\alpha$  emission line of the radio- and gamma-ray-emitting Be/X-ray binary LSI+61 303 obtained during the period of September 1998 - January 2013. From measuring various H $\alpha$  parameters, we found that the orbital modulation of the H $\alpha$  is best visible in the equivalent width ratio EW(B)/EW(R), the equivalent width of the blue hump, and in the radial velocity of the central dip. The periodogram analysis confirmed that the H $\alpha$  emission is modulated with the orbital and superorbital periods. For the past 20 years the radius of the circumstellar disk is similar to the Roche lobe size at the periastron. It is probably truncated by a 6:1 ...(more)