



The Orbital Period and Variability of the Dwarf Nova ES Draconis

F. A. Ringwald, Kenia Velasco

(Submitted on 21 Jul 2011)

A radial velocity study of the cataclysmic variable ES Dra (PG 1524+622) is presented. ES Dra is found to have an orbital period of 0.17660 ± 0.00006 d (4.2384 ± 0.0014 h). The mass-losing secondary star of ES Dra is detectable in the spectrum, and it has a spectral type of $M2 \pm 1$. From this, we estimate the absolute magnitude of ES Dra during our spectroscopic observations to have been $MR = 6.5 \pm 0.5$, and its distance to be 720 ± 150 pc. The long-term light curve of ES Dra compiled by the American Association of Variable Star Observers (AAVSO) shows that ES Dra is a Z Cam star, which between 1995 and 2009 spent most of its time in standstill.

Comments: 16 pages, 6 figures, accepted for publication in New Astronomy

Subjects: **Solar and Stellar Astrophysics (astro-ph.SR)**

Cite as: **arXiv:1107.4175v1 [astro-ph.SR]**

Submission history

From: Frederick Ringwald [[view email](#)]

[v1] Thu, 21 Jul 2011 06:13:31 GMT (395kb)

Which authors of this paper are endorsers?

Download:

- [PDF only](#)

Current browse context:

astro-ph.SR

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[astro-ph](#)

References & Citations

- [SLAC-SPIRES HEP](#)
([refers to](#) | [cited by](#))
- [NASA ADS](#)

Bookmark([what is this?](#))

