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(Submitted on 10 Jul 2011)

N.A. Sokolov

The variability of twice ionized lines of carbon and silicon in the ultraviolet spectral region of the magnetic Bp star a Centauri is investigated. This study is based on the archival {\it International Ultraviolet Explorer} data obtained through the large aperture and in the low-dispersion mode. A comparison of the average {\iue} high-dispersion spectrum of a Cen with full synthetic spectrum as well as those including only lines of one element showed that six C III and six Si III lines are responsible for the depressions of the flux at \$\lambda\lambda\$ 1175.5 and 1300\AA, respectively. Investigation of the variability of flux in the core of depression at \$\lambda\$ 1775.5 \AA\ indicate that the fluxes do not vary within errors of measurements. On the other hand, the fluxes in the core of depression at \$\lambda\$ 1300 \AA\ varies significantly with amplitude of \$\sim\$0.2 mag. Moreover, the variability of this depression are in anti-phase with helium lines in the visual spectral region.

Variability of C III and Si III lines in

the ultraviolet spectral region of

the magnetic Bp star a Centauri

Comments: 5 pages, 3 figures, 1 Table, JENAM-2011, European Week of Astronomy ans Space Science. Symposium of European Astronomical Society, held in Saint-Petersburg, 4 - 8 July 2011, poster presentation S1-7

Subjects:Solar and Stellar Astrophysics (astro-ph.SR)Cite as:arXiv:1107.1894 [astro-ph.SR]<br/>(or arXiv:1107.1894v1 [astro-ph.SR] for this version)

## **Submission history**

From: Sokolov Nikolay [view email] [v1] Sun, 10 Jul 2011 20:14:13 GMT (154kb)

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