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HD 12582: A NEW δ Sct VARIABLE

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Name of the object:	
HD 12582 = SAO 75119 = HIP 9644	
Equatorial coordinates:	Equinox:
R.A. = 2 ^h 3 ^m 58 ^s .2 DEC. = +29°54'18"	J2000.0
Observatory and telescope:	
90 cm at Sierra Nevada Observatory, Spain	
Detector:	Six channel <i>uvbyβ</i> spectrograph photometer
Filter(s):	<i>uvbyβ</i>
Date(s) of the observation(s):	
10 and 17 September 2001	
Comparison star(s):	HD 11547 V=7 ^m 5, F0, HD 12273 V=7 ^m 7, F5
Transformed to a standard system:	<i>uvbyβ</i>
Standard stars (field) used:	<i>uvbyβ</i> standard stars from Crawford & Mander (1966) and Crawford & Barnes (1970)
Availability of the data:	
Upon request	
Type of variability:	DSCT

Remarks:

The variability of HD 12582 was discovered during an observational program carried out on the Algol-type eclipsing binary system X Tri, where HD 12582 was used as a check star. This star presents a δ Sct-type photometric variability with a main period of about 2.0 hours ($P=0.08$ days), but secondary frequencies must not be ruled out. Different amplitudes are found for each of the four *uvby* filter for the main period: 0^m0083 , 0^m0140 , 0^m0113 and 0^m0087 with rates typical of δ Sct-type pulsators. The photometric Strömgren indices were calibrated to be $V=8^m251$, $b-y=0^m178$, $m_1=0^m175$, $c_1=0^m945$ and $\beta=2^m781$. From these indices and following the procedure outlined in a previous paper (Rodríguez & Rolland 2000) we found this star being a normal δ Sct star with nearly solar abundances.

Acknowledgements:

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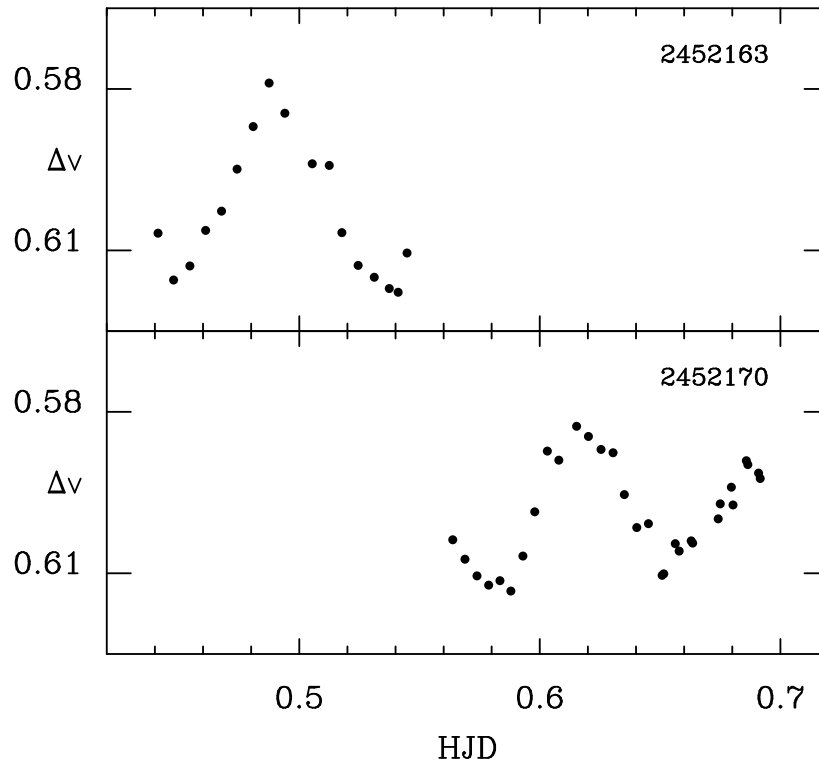


Figure 1. Differential light curves of HD 12582 relative to HD 11572 in the *v* filter versus Heliocentric Julian Day

References:

- Crawford, D.L., Barnes, J.V., 1970, *AJ*, **75**, 978
 Crawford, D.L., Mander, K., 1966, *AJ*, **71**, 114
 Rodríguez, E., Rolland, A., 2000, *IBVS*, **4851**