

dwarf

Elena Mason

(Submitted on 20 Jul 2011)

arXiv.org > astro-ph > arXiv:1107.4013

Astrophysics > Solar and Stellar Astrophysics

All papers	Ŧ

## **Download:**

• PDF

Search or Article-id

- PostScript
- Other formats

Current browse cont astro-ph.SR

< prev | next >

new | recent | 1107

Change to browse b

astro-ph

## References & Citatio

- INSPIRE HEP
- (refers to | cited by)NASA ADS

Bookmark(what is this?)



Comments:Accepted for publication on A&A Letter; 4 pages 3 figuresSubjects:Solar and Stellar Astrophysics (astro-ph.SR)Cite as:arXiv:1107.4013 [astro-ph.SR]<br/>(or arXiv:1107.4013v1 [astro-ph.SR] for this version)

U Sco 2010 outburst: observational

evidence of an underlying ONeMg white

This paper presents U Sco nebular spectra collected in the period March-May 2010 after the binary

typical [Ne/O] abundance found in classical novae from CO progenitors and suggests that U Sco has

a ONeMg white-dwarf progenitor. It follows that U Sco will not explode as a SN Ia but rather collapse

outburst on Jan 28, 2010. The spectra display strong [Ne V] and [Ne III] lines that can be used to

compute the relative abundance of [Ne/O]. The value obtained ([Ne/O]=1.69) is higher than the

## **Submission history**

From: Elena Mason [view email] [v1] Wed, 20 Jul 2011 15:58:30 GMT (157kb)

Which authors of this paper are endorsers?

to become a neutron star or a millisecond pulsar.

Link back to: arXiv, form interface, contact.