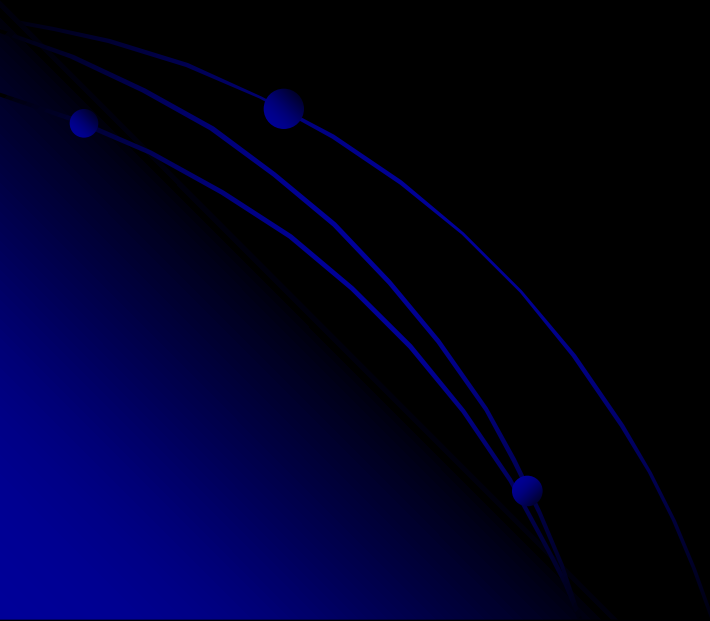




2° Meeting Unione Astrofili Napoletani
INAF – Osservatorio Astronomico di Capodimonte
1° dicembre 2012

Una Nova in Sagittario...

Analisi spettroscopica



La notizia ...



AAVSO
American Association of Variable Star Observers

[Home](#) [Contact Us](#) [FAQ](#) [Donate](#) [Amazon](#)

[Home](#) [Print This Page](#)

Alert Notice 463: Nova Sagittarii 2012 No. 3 = PNV J17522579-2126215

July 3, 2012:

Event: Nova Sagittarii 2012 No. 3 = [PNV J17522579-2126215](#)

Discovered independently by:

- Koichi Itagaki (Yamagata, Japan, reported by Hitoshi Yamaoka, Kyushu University)
- Yukio Sakurai (Mito, Ibaraki-ken, Japan)

Discovery Magnitude:

- Itagaki: magnitude 10.3 on an unfiltered CCD image taken with a 0.21-m reflector
- Sakurai: magnitude 9.9 on four 20-s frames taken with a Fuji FinePix S2 Digital Camera + Nikon 180-mm f/2.8 lens

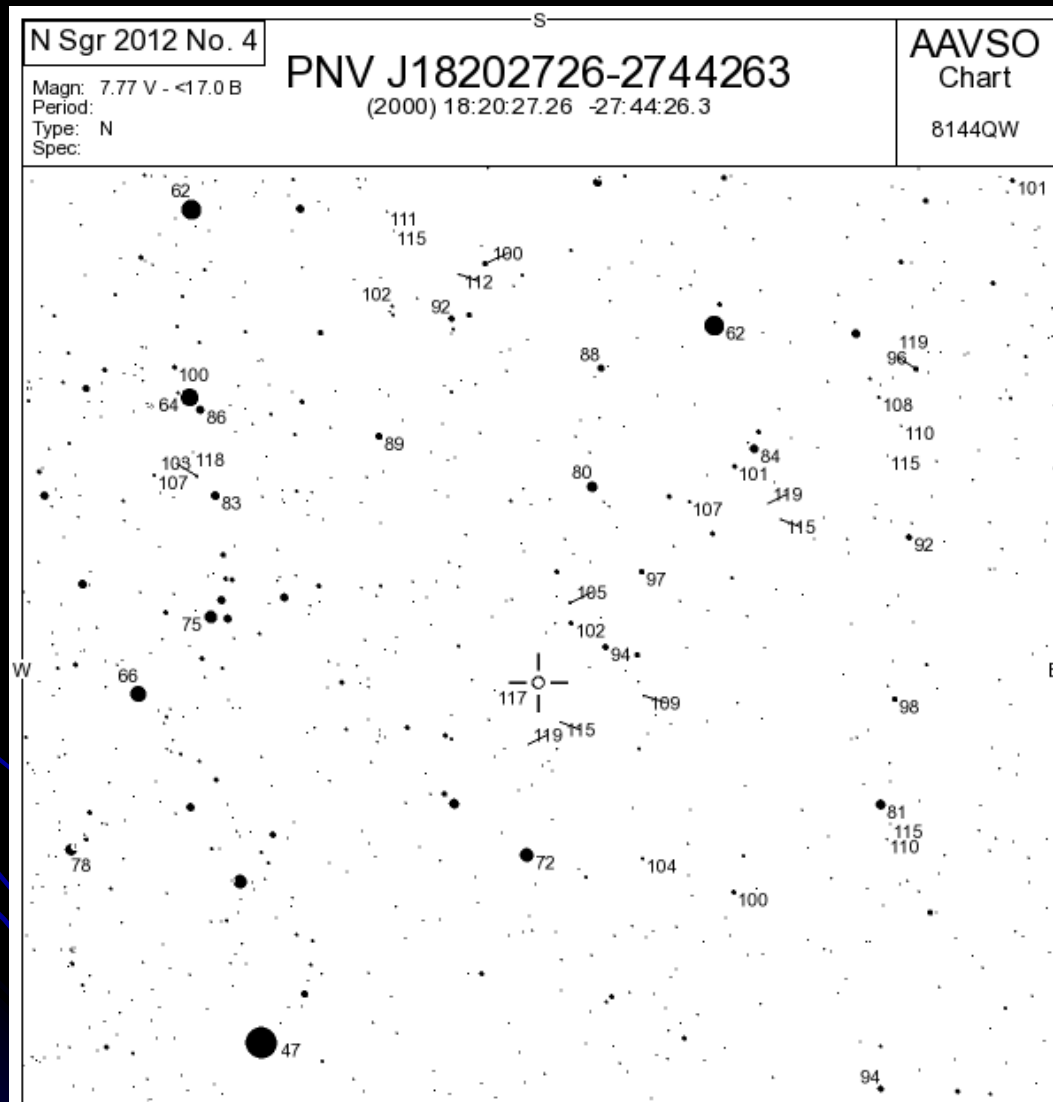
Discovery date:

- Itagaki: 2012 June 26.5494 UT
- Sakurai: 2012 June 26.540 UT

Coordinates:

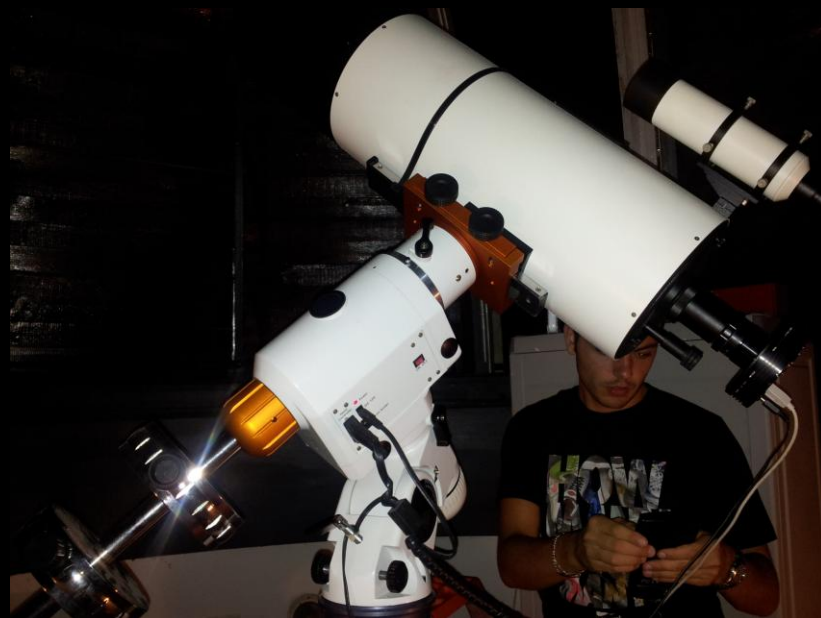
- Itagaki: R.A. 17 52 25.79 Dec. -21 26 21.5 (2000.0)
- Sakurai: R.A. 17 52 25.59 Dec. -21 26 22.9 (2000.0), measured by S. Nakano, Sumoto, Japan, +/- 5" and limiting magnitude ~11.5;

La ricerca ...



Strumentazione e Software

- Telescopio Maksutov 180 f/10 su Montatura Skywatcher NEQ6
- CCD Atik 16 IC-S sensore monocromatico
- Reticolo di diffrazione Shelyak Star Analyzer 100 linee/mm
- AstroArt
- Visual Spec



Spettro



Procedure

Acquisizione degli spettri

Acquisizione delle immagini di pre-riduzione

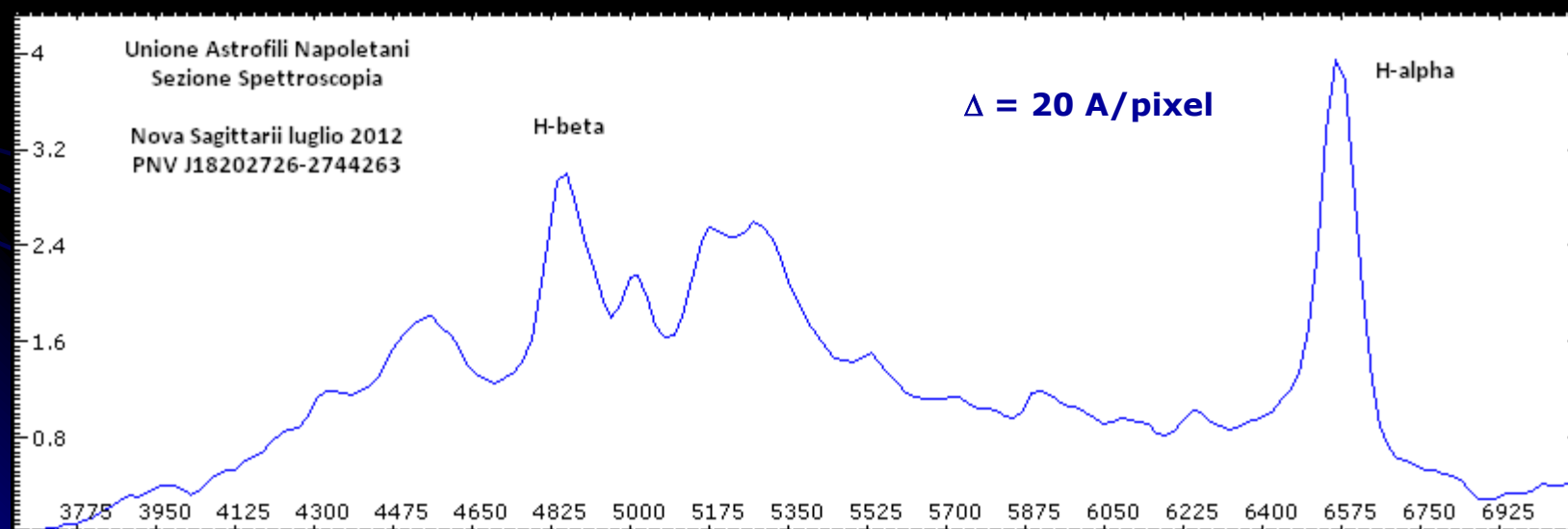
Pre-processing degli spettri

Media degli spettri per aumentare il rapporto S/N

Sottrazione del fondo cielo

Calibrazione in lunghezza d'onda dello spettro

Spettro e profilo



Pubblicazione



ARAS Spectroscopy Forum

Indice < Spectra, results, information on activity ...

Pannello di Controllo Utente (0 nuovi messaggi privati) • I tuoi messaggi

FAQ Iscriviti Logout [Elio Ricciardiello]

Nova Sagittarii

POSTREPLY Cerca qui... Cerca

3 messaggi • Pagina 1 di 1

Nova Sagittarii

da **Elio Ricciardiello** » mar lug 17, 2012 12:20 pm

In Naples on 10/07/2012 from Observatory of Capodimonte we, Section of Spectroscopy of Unione Astrofili Napoletani, had caught Nova Sagittarii spectrum by Maksutov 180mm, Neq6 Skywatcher, StarAnalyzer 100I/mm.

Best regards

Elio Ricciardiello

[EDIT](#) [!](#) [QUOTE](#)

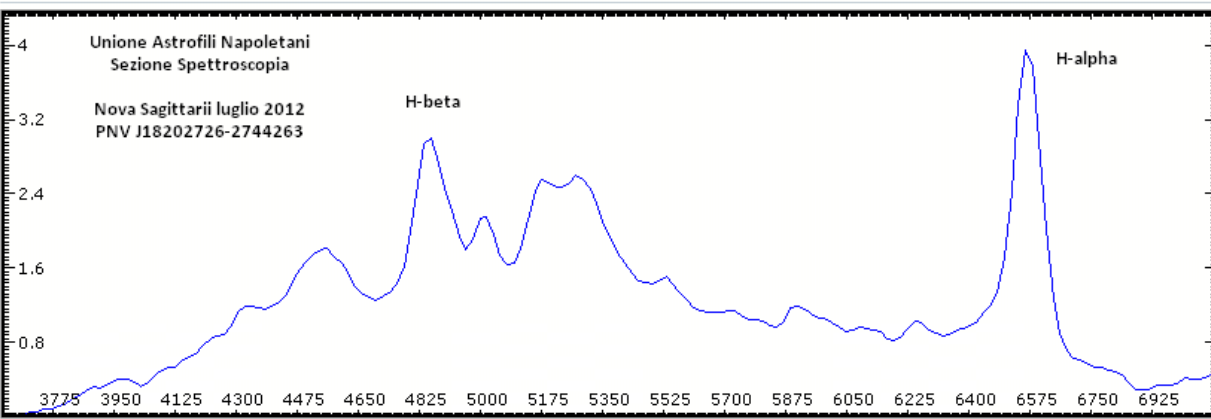
Elio Ricciardiello

Messaggi: 2
Iscritto il: mar dic 06, 2011 10:19 pm

[Inviato](#) [Ricevuto](#)

ONLINE

ALLEGATI



The figure is a spectral plot titled "Unione Astrofili Napoletani Sezione Spettroscopia" and "Nova Sagittarii luglio 2012 PNV J18202726-2744263". The x-axis represents wavelength in Angstroms, ranging from 3775 to 6925. The y-axis represents intensity, ranging from 0.8 to 4. The plot shows a blue line representing the spectrum. Two prominent emission lines are labeled: "H-beta" at approximately 4861 Angstroms and "H-alpha" at approximately 6563 Angstroms. The H-alpha line is the most intense, reaching a peak value of about 3.8. The H-beta line is also significant, reaching a peak value of about 2.8. Other smaller peaks are visible across the spectrum.

novasag-spectr.png (12.87 KiB) Osservato 110 volte

Commenti

Re: Nova Sagittarii

da **Francois Teyssier** » mer lug 18, 2012 6:15 am

Good, The hydrogen lines are quite apparent
You could try to correct the instrumental response.

Can you tell us more about the Section of Spectroscopy of Unione Astrofili Napoletani
What instruments, spectrographs, the activity ...

Best regards

François Teyssier

François Teyssier
<http://www.astronomie-amateur.fr>



Re: Nova Sagittarii

da **Elio Ricciardiello** » mer lug 18, 2012 10:27 am

The Section of Spectroscopy is a sperimental Section of the Unione Astrofili Napoletani (UAN) which observe from the Observatory of Capodimonte in Naples. It is composed of four amateurs (including me) and is operating from 2009. Our works have regarded Betelgeuse [Misura della temperatura superficiale di Betelgeuse mediante il metodo spettroscopico <http://adsabs.harvard.edu/abs/2011AsUAI...1...20C>] presented to Congresso Unione Astrofili Italiani (UAI) on September 2010, Moon [Monitoraggio dei fenomeni lunari transienti (TLP) mediante spettroscopia <http://adsabs.harvard.edu/abs/2007AsUAI...6...13M>], P-Cygni (next publication on UAI Review), AB-Aurigae, Delta Cephei, monthly monitoring of the spectrum of the crater Aristarchus from July 2011 in search of TLP . Antonio Marino, also him of the Section, have built a spectrograph with a 1200 lines grating and a Hg calibration lamp. Ideas are not missing for us. We operate by Maktusov 1800 on NEq6 Skywatcher, Star Analyzer 100l/mm, CCD Atik 16 IC-S in west cupola or by Celestron C11 f/10 on CI 700, Dado Baader Planetarium 200-900 l/mm, Atik in east cupola Atik 16 IC-S.

Best regards

Elio Ricciardiello

