

Institute of Astronomy with
National Astronomical
Observatory
Bulgarian Academy of Sciences

Mirela Napetova

24 November 2014,
Isaac Newton Group, La Palma Office

Who are we?



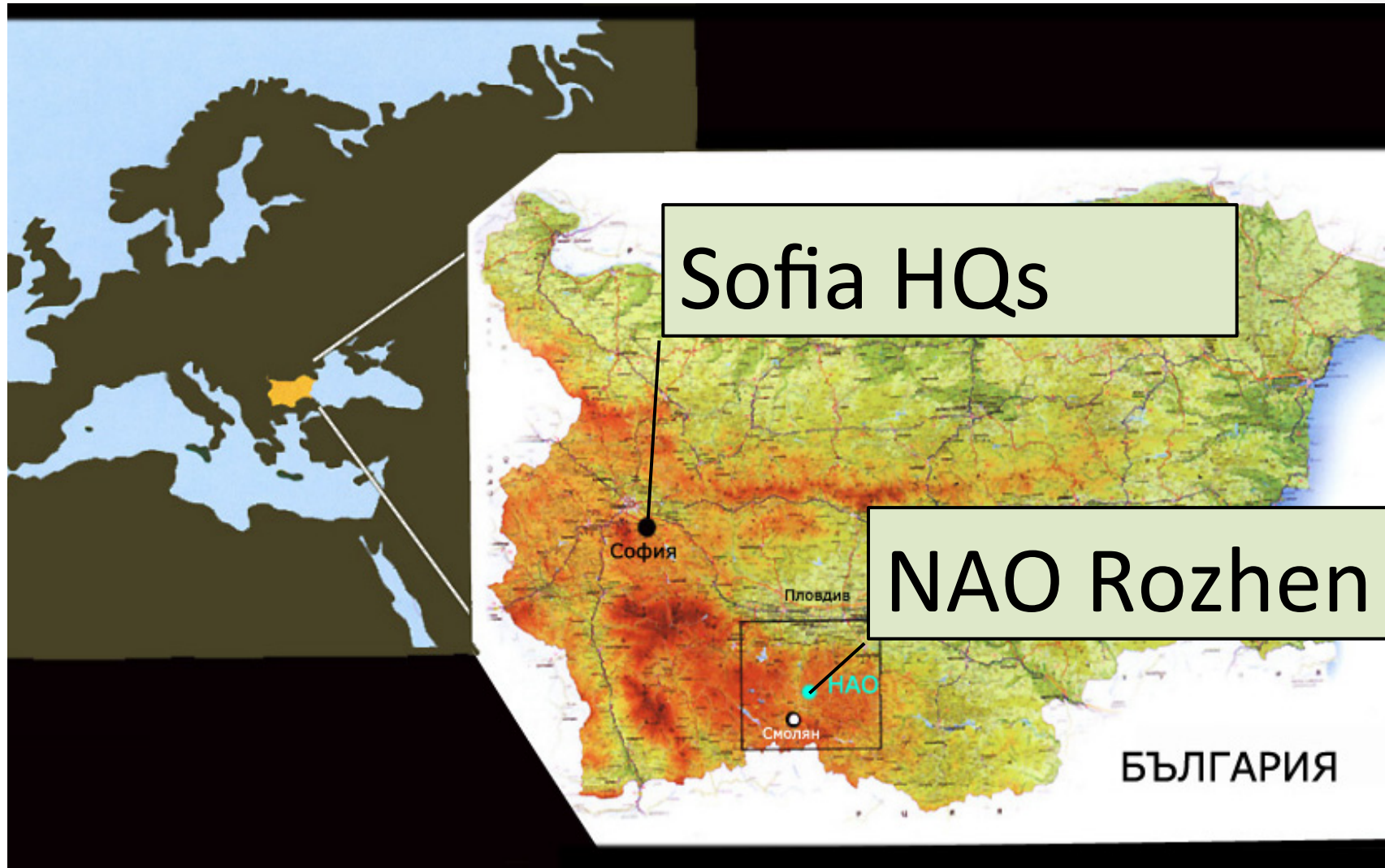
➤ Staff: 79 permanent positions, 35 scientific members

Main research areas:

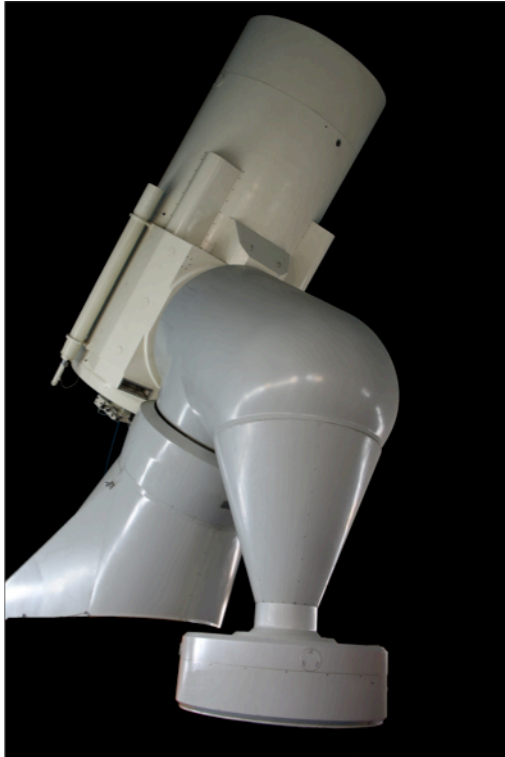
- Sun
- Solar System
- Exoplanets
- Stellar atmospheres and envelopes
- Chemically peculiar stars
- Cataclysmic & eruptive variables, X-Ray binaries
- Galaxies
- Wide field plate data base
- Early Universe

Where are we:

$\lambda = 24^{\circ} 45' \text{ E}$,
 $\varphi = +41^{\circ} 41.5'$
Alt: 1750m



2-m Ritchie-Chretien
Coudé telescope



60-cm Cassegrain
telescope



50/70-cm Schmidt
telescope



15-cm Coronagraph



30-cm MEADE
Telescope for visitors

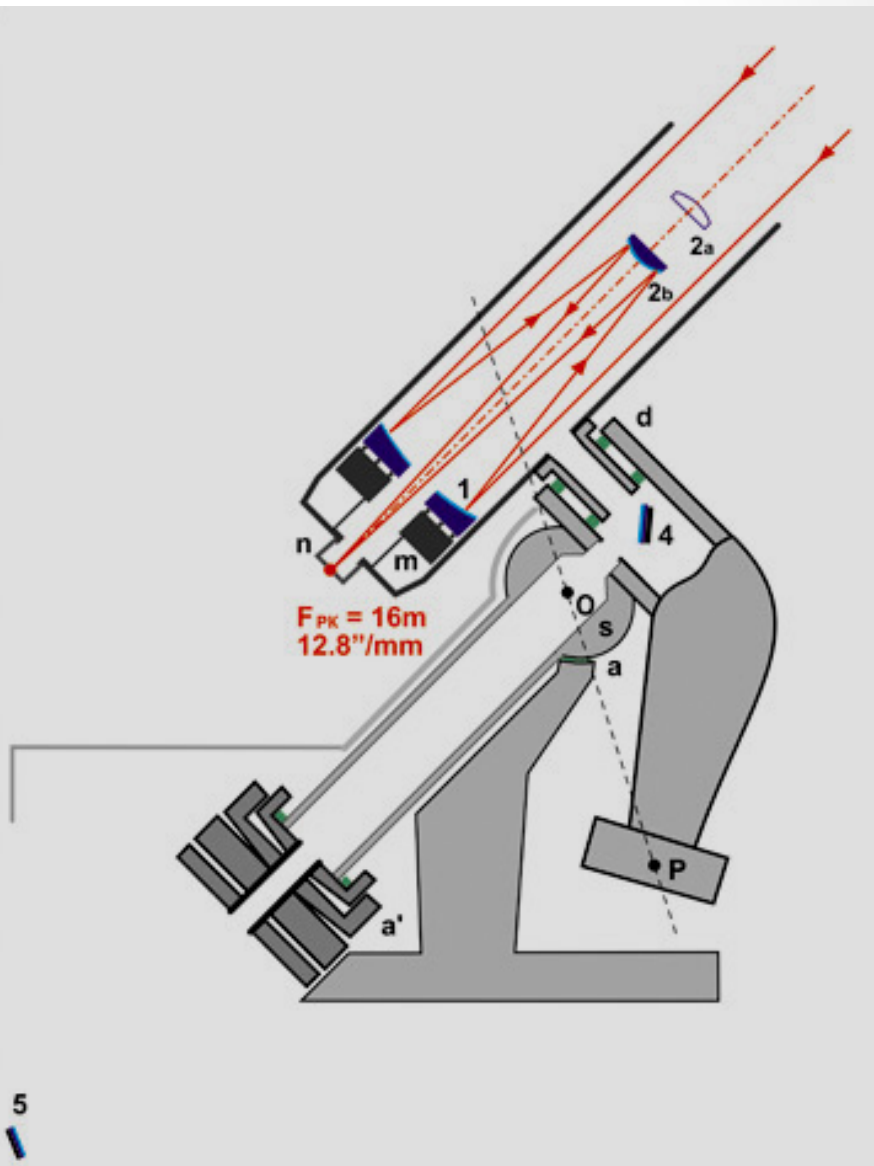
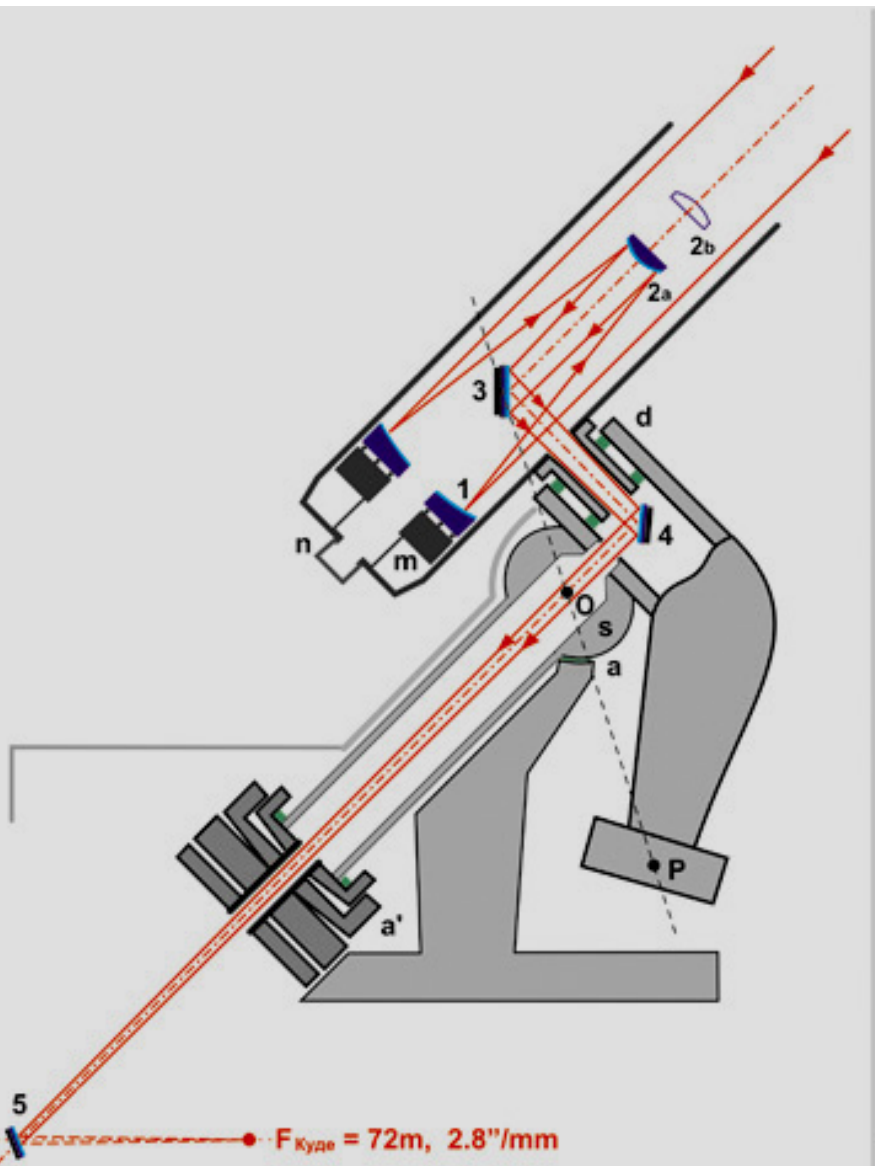


Dome of the 2-m telescope

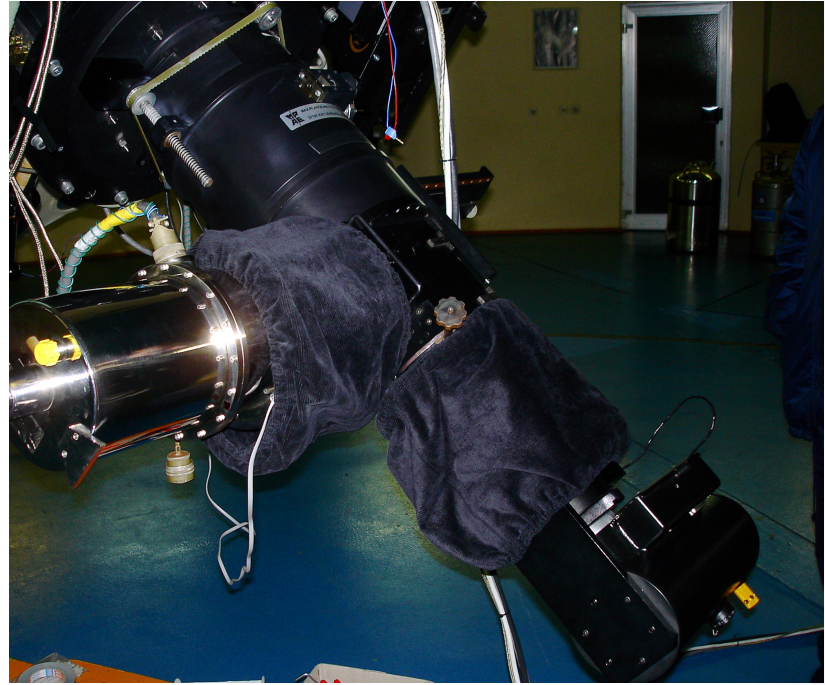
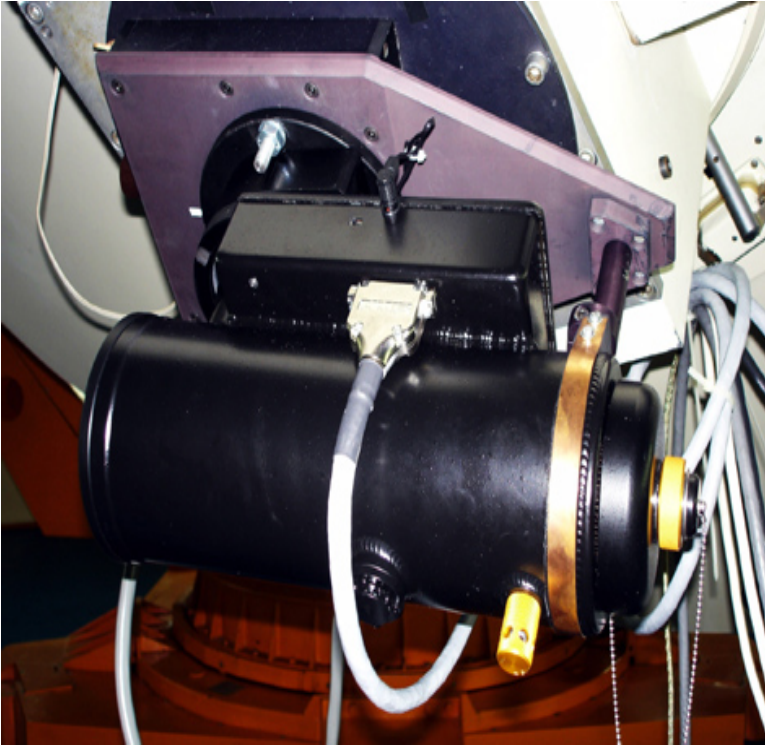
first light 1981



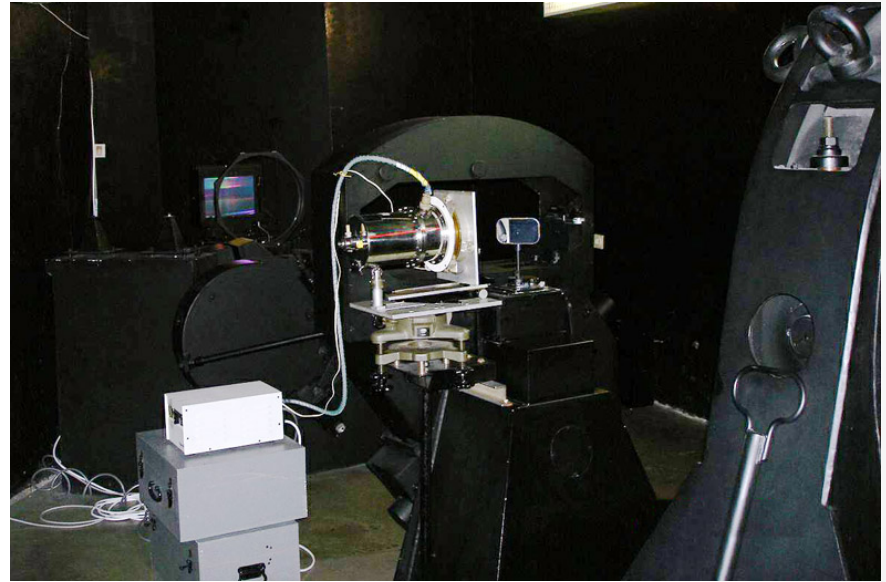
2-m RCC telescope design



Ritchey-Chrétien mode



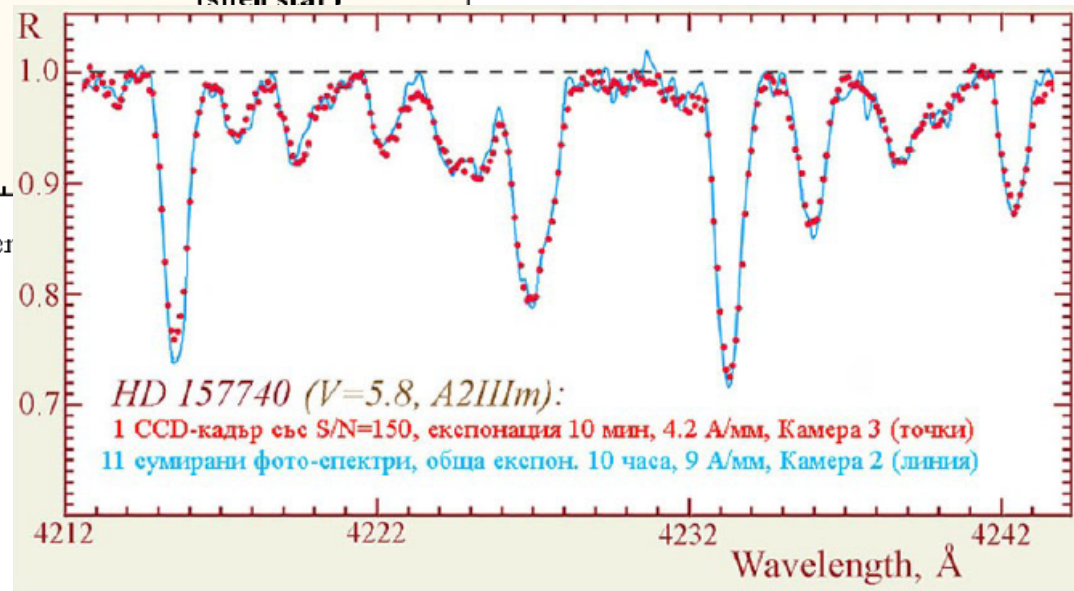
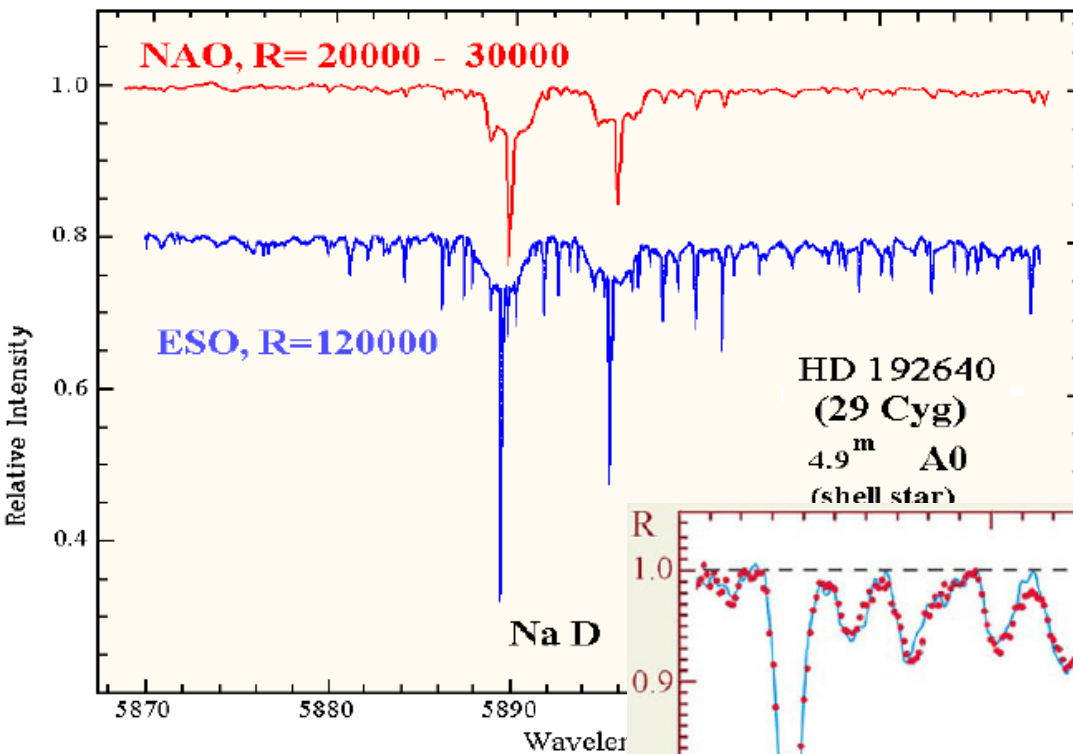
The Coudé spectrograph



The Coudé spectrograph

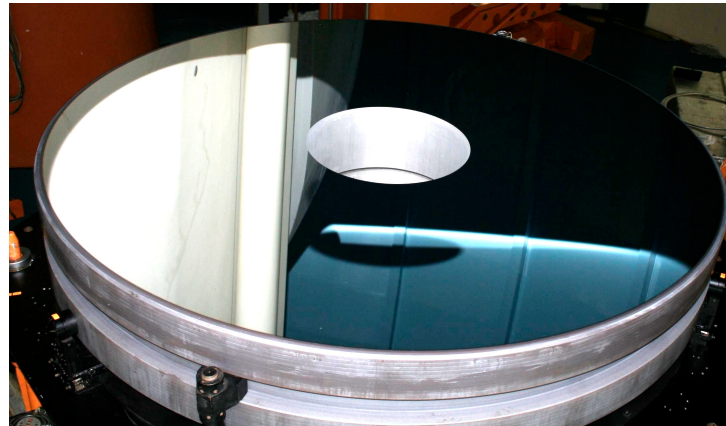
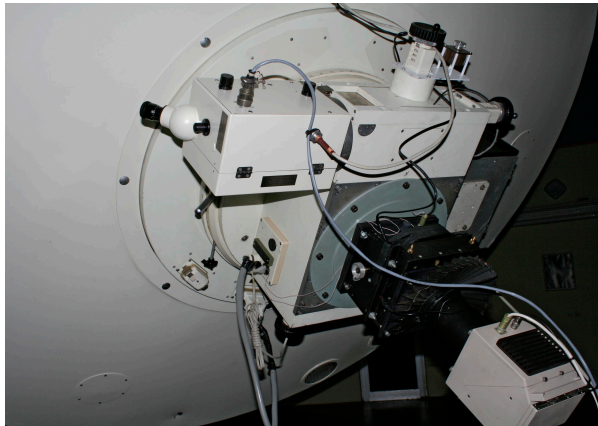
high-resolution spectroscopy

RV - up to 500m/s



Recent upgrades:

- Autoguiding system, 2006
- Optics recoating, 2008
- New Control System, 2009
- Echelle Spectrograph (being commissioned)



Recent upgrades:

2-channel Focal Reducer Rozhen = FoReRo2
comissioned 2002

1. Broadband imaging
2. Narrowband imaging
3. Long slit spectroscopy
4. Fabry-Perot imaging
5. Imaging polarimetry

Regional center for research and education



Regional center for research and education



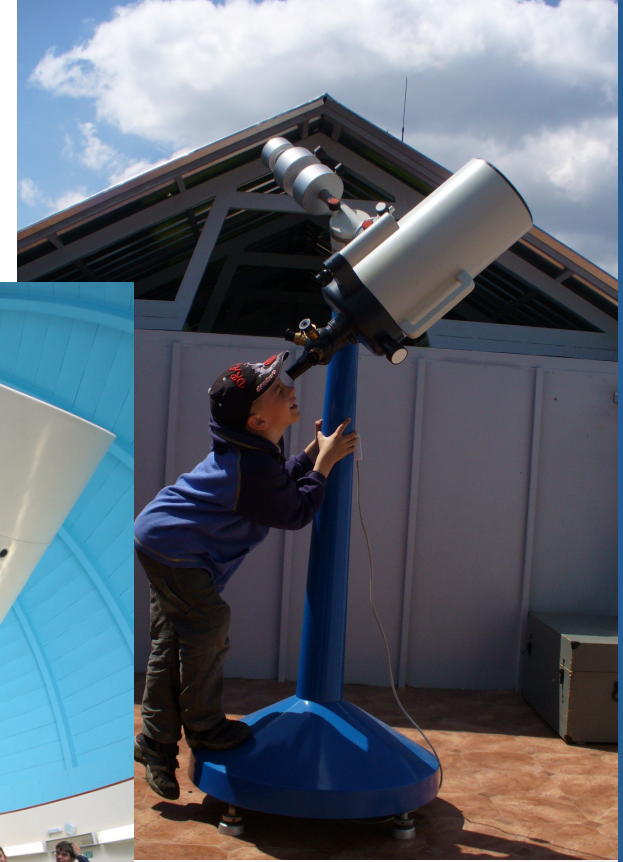
NEON observing school 2014

<http://astro.bas.bg/school/>

International cooperation

- Partner organizations of the Institute abroad are more than 100 institutions from Austria, Belgium, Canada, Estland, France, Germany, Greece, Hungary, Italy, Japan, Poland, Romania, Serbia, UK, USA, Russia, Ukraine, etc.
- The institute is an active member of the SUB-REGIONAL EUROPEAN ASTRONOMICAL COMMITTEE (SREAC), sponsored by UNESCO-BRESCE.
- Recently the Bulgarian Academy of Sciences was recognized as an associate partner of ASTRONET. Key role in this case has the Institute of Astronomy with the 2-meter telescope in the National astronomical observatory.
- OPTICON?

Public Outreach activities



nao-rozhen.org [in English]

Rozhen NAO Public Home Page

nao-rozhen.org

Rozhen NAO Public Home Page

ROZHEN NATIONAL ASTRONOMICAL OBSERVATORY BULGARIA





Institute of Astronomy and NAO

- WEB-site
- Staff
- WEB- mail

The Observatory

- News
- Observations
- Telescopes
- Projects
- Galleries
- History
- Schools
- Visits
- Job Offers
- Friends



2m RCC-telescope

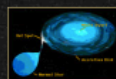
Rozhen NAO Public Home Page

OPTICON observing school and Awareness conference, Rozhen NAO: Sept. 17 – 24 and Sofia: 25 September – 2 October. [Read more](#)

8 June 2014 is an open day at the Rozhen National Astronomical Observatory. [Read more](#)



The discovered at NAO Rozhen cataclysmic star 2MASS J01074282 4845188 is a unique object with rather extreme characteristics. [Read more](#)



♦ **Other News**

- ♦ [Astronomical schools and workshops](#) (BG)
- ♦ [Weather and forecast for Rozhen's region, webcam and automatic stations](#)
- ♦ [Allocation of observing time at the telescopes in NAO Rozhen and AO Belogradchik](#)
- ♦ [WEB-page of the Time Allocation Committee of the Institute of Astronomy with NAO, BAS](#)

Important! The next observing period 2015B is 1.08.2015 – 31.01.2016. The deadline for application submission is 20 March 2015, 23:59:59 UTC. New application form can be downloaded from [here](#) (DOC 48 KB). Please send completed applications in due time via e-mail to observations@astro.bas.bg as a single PDF file for each

EET 10:36:14 UT 08:36:14

November 2014

Week No	Mo	Tu	We	Th	Fr	Sa	Su
44						1	2
45	3	4	5	6	7	8	9
46	10	11	12	13	14	15	16
47	17	18	19	20	21	22	23
48	24	25	26	27	28	29	30

Day 328 of the year
Julian Day 2456985.857

Current Astronomy Picture

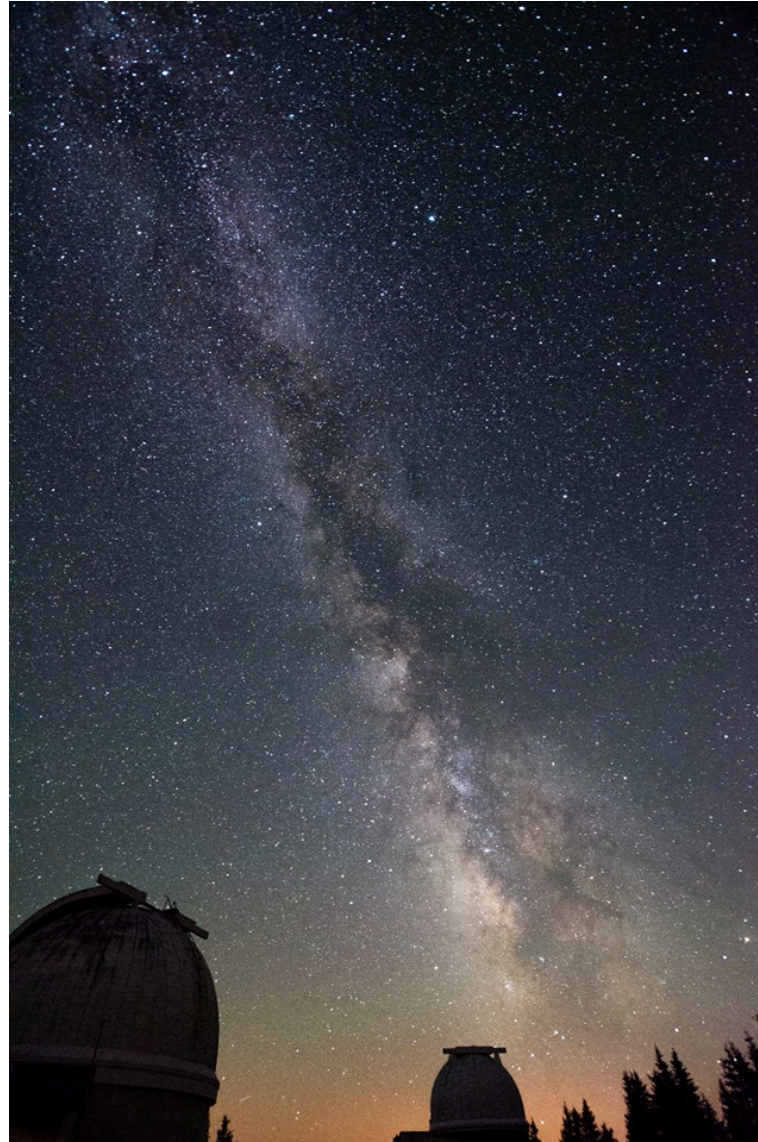


Atmospheric Phenomena



¡Gracias por su atención!

¿Preguntas?



Acknowledgements

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Повишаване на професионалните умения в теорията и практиката на астрономията чрез многопрофилно и интерактивно обучение

**“Human Resources Development” Operational Programme
ОПЕРАТИВНА ПРОГРАМА „РАЗВИТИЕ НА ЧОВЕШКИТЕ
РЕСУРСИ”** *Инвестира във вашето бъдеще!*