SPECTROSCOPING MONITORING OF AGN AT ROZHEN OBSERVATORY

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The Observatory

3 ozhen National Astronomical Observatory is the biggest Observatory in Southeastern Europe and it is situated at 1745 m altitude at Rodopi mountains, Bulgaria.





Observations and equipment

We started a program to monitor spectroscopically selected Type I AGN. Our observations was made with 2 Ritchey-Chretien-Coude telescope with specific light-receiver called FoReRo2 (two-channel Focal - Reducer Rozhen) between January 16 and January 18 2015.

The parameters of 2m RCC telescope with FoReRo2 equipment are:



f= 5.6 m Grizm- 4.3 A/px Resolving power -R = 400



Goals:

- To measure accurately broad line widths and line ratios of newly discovered, relatively bright AGN. ÷
- To monitor profile changes, including those of so called "changing look" AGN. *
- ÷ To select objects, suitable for future reverberation mapping campaigns (relatively bright and variable).
- To classify unidentified, newly discovered gamma-ray (Fermi) sources, most of them probably AGN *



Figure 1: Akn 120, January 16 2015





Figure 2: Ark 279, January 16 2015



Figure 4: REJ 1034+396, January 16, 2015