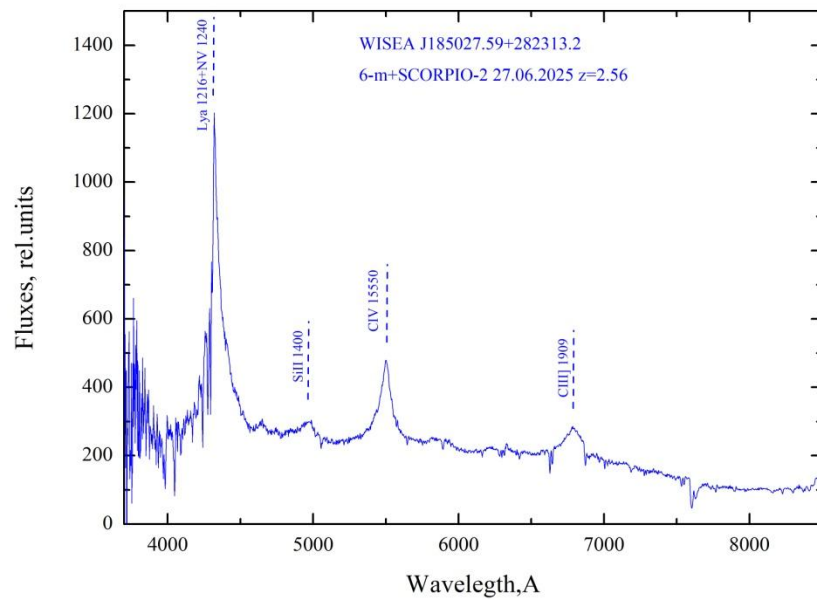
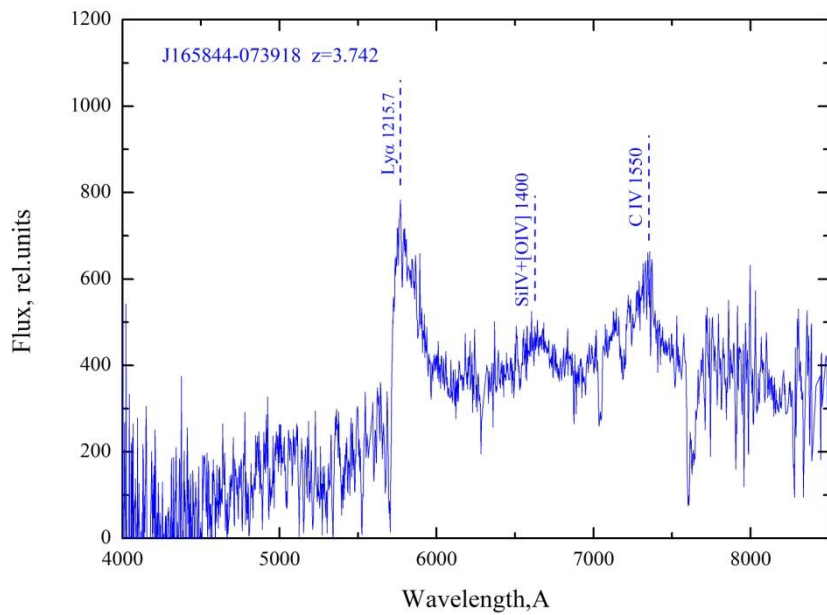
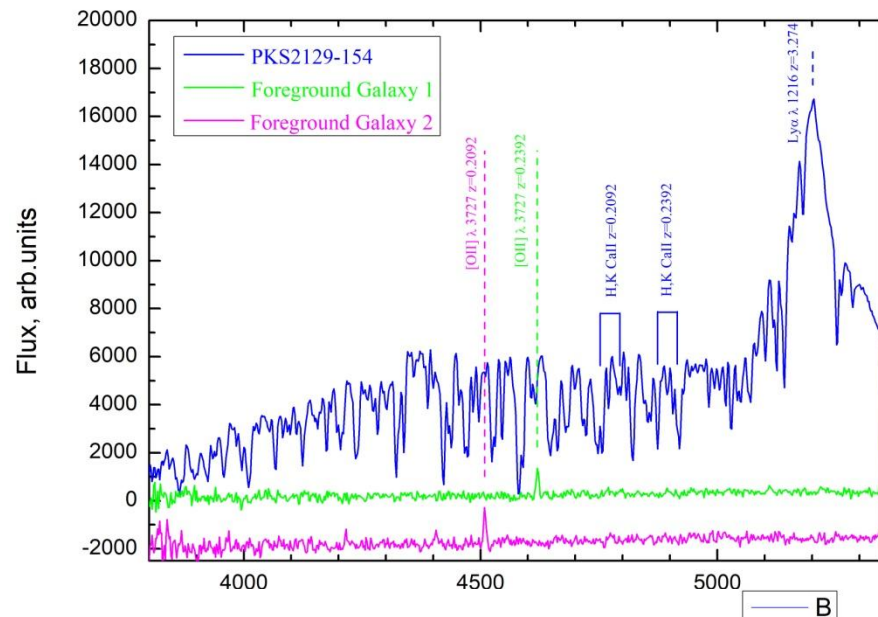
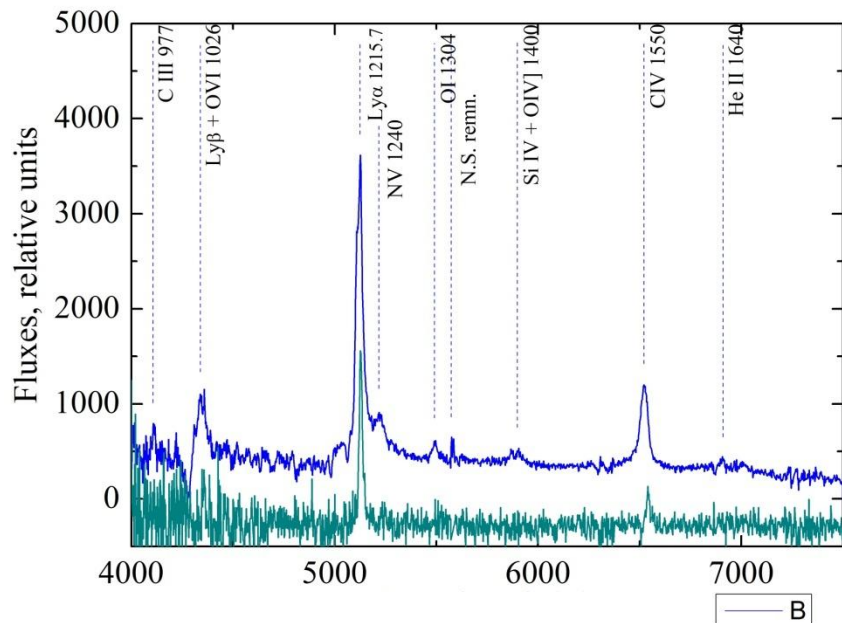


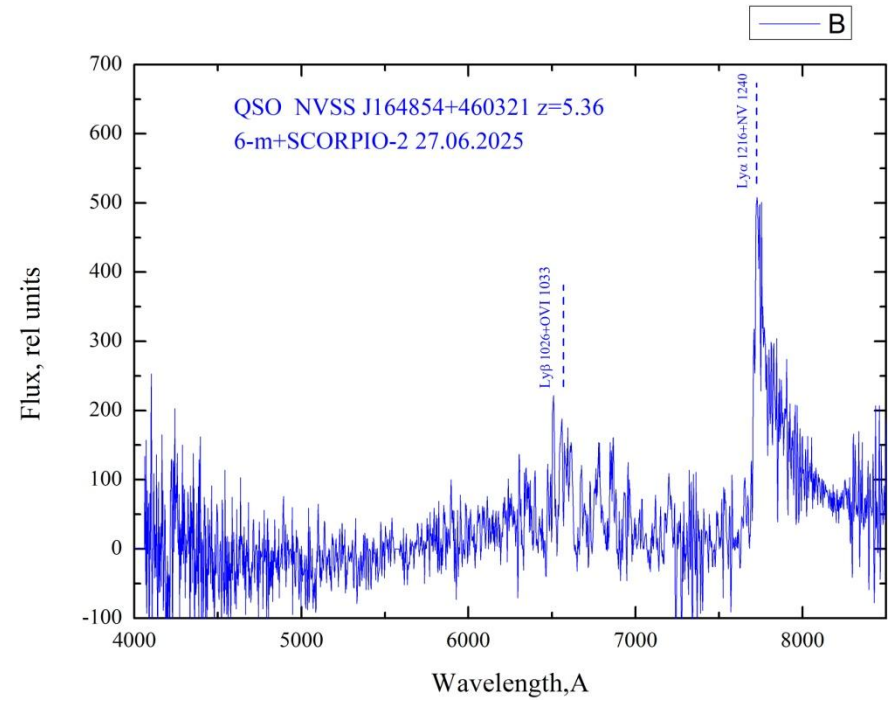
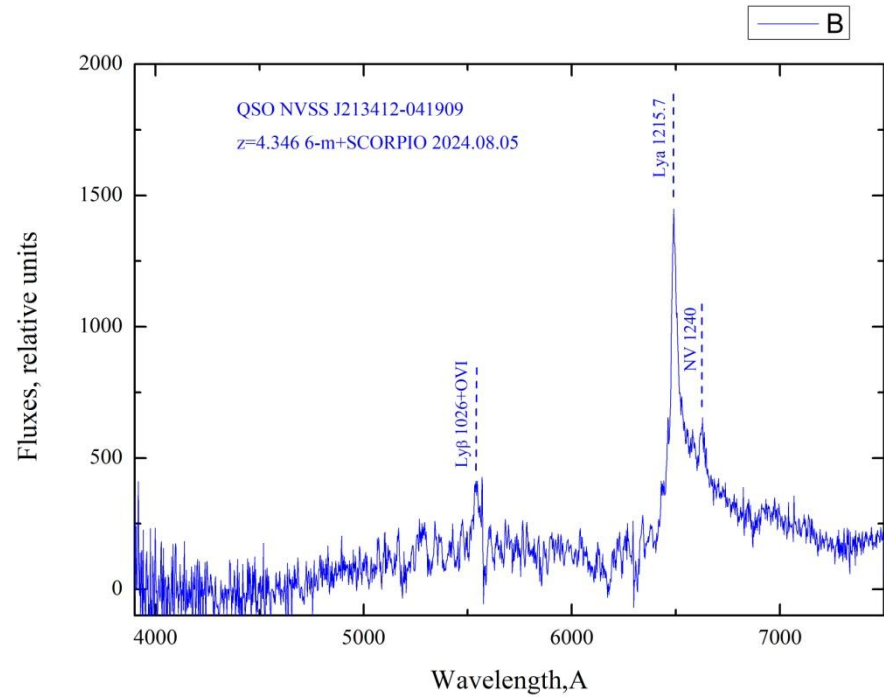
Спектроскопия избранных радиоисточников на фокальных редукторах SCORPIO-1 и SCORPIO-2

В.В.Власюк

Spectroscopy of High Frequency Peaker QSO with 6-meter telescope+SCORPIO-1,2



Spectroscopy of Hi-Z Radio QSO with the BTA+SCORPIO-1,2



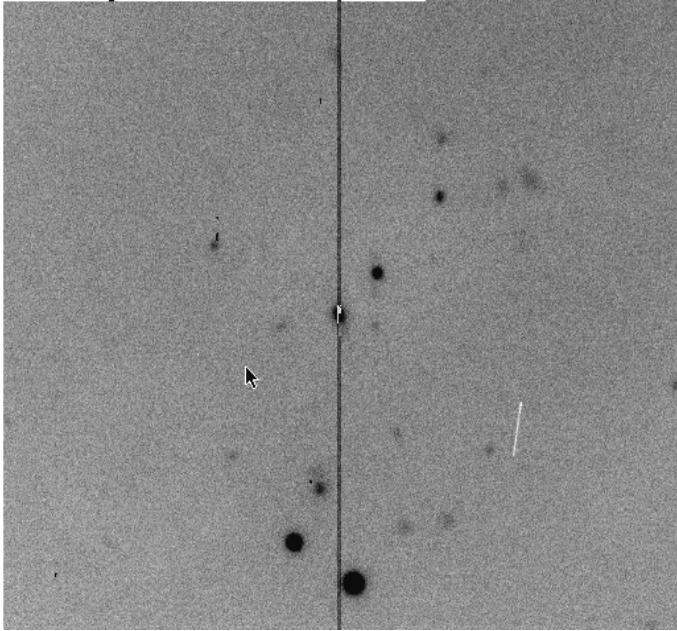
Spectral studies of megamaser candidates (Zhongzu Wu, FAST)

- The studies were performed with spectrographs SCORPIO-1 and SCORPIO-2 in 2024-2025.
- Combination of different volume-phased holographic gratings were used- 1200B, 1200R, 550G etc in order to cover necessary spectral region. Typical resolution of data – about 500 km/sec.
- Main lines of interest are – [OII]3727, [OIII]4959, 5007, H_{β} 4861.
- The examples of studied galaxies are presented below, the log of observations is presented here.

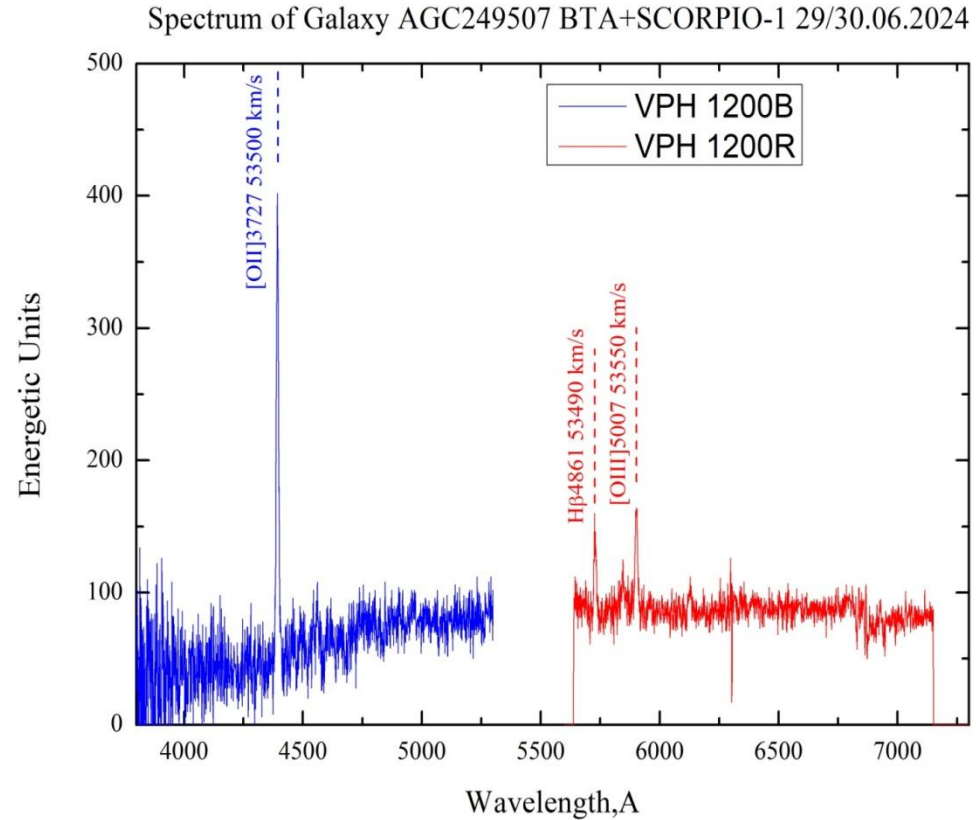
Журнал наблюдений

N	AGC Name	Date of obs	Num of exposures	Grating	Seeing, Zendist
1	249507	29/30.06.2024	2x600s + 2x600s	1200R, 1200B	1".5, 61->65
2	322231	12/13.07.2024	3x600s	550G	1".5, 41->37
3	115713	12/13.07.2024	3x600s	550G	2".5, 56->52
4	102850	14/15.07.2024	2x600s	550G	1".5, 45->43
5	102708	14/15.07.2024	4x900s	550G	1".5, 37->34
6	322231	5/6.08.2024	3x600s	550G	1".5, 35->33
7	749309	26/27.01.2025	3x900s+3x300s	940@600	
8	219835	26/27.01.2025	3x600s	940@600	
9	115713	27/28.01.2025	3x300s	940@600	
10	124351	27/28.01.2025	3x300s	940@600	

Candidate AGC249507



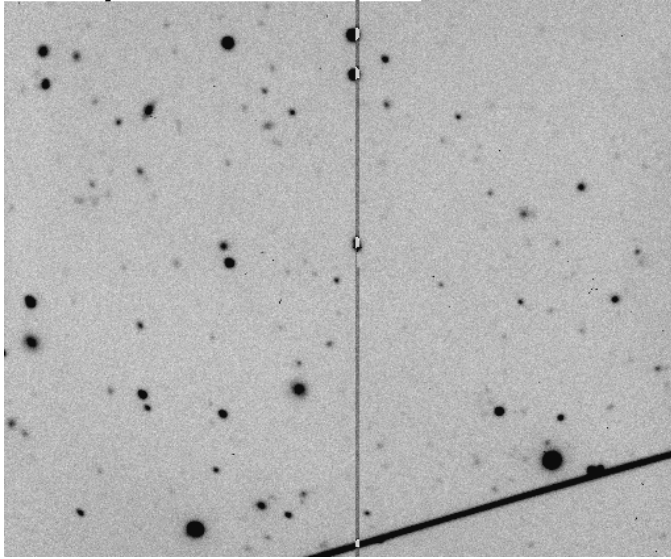
Вид на щели SCORPIO-1



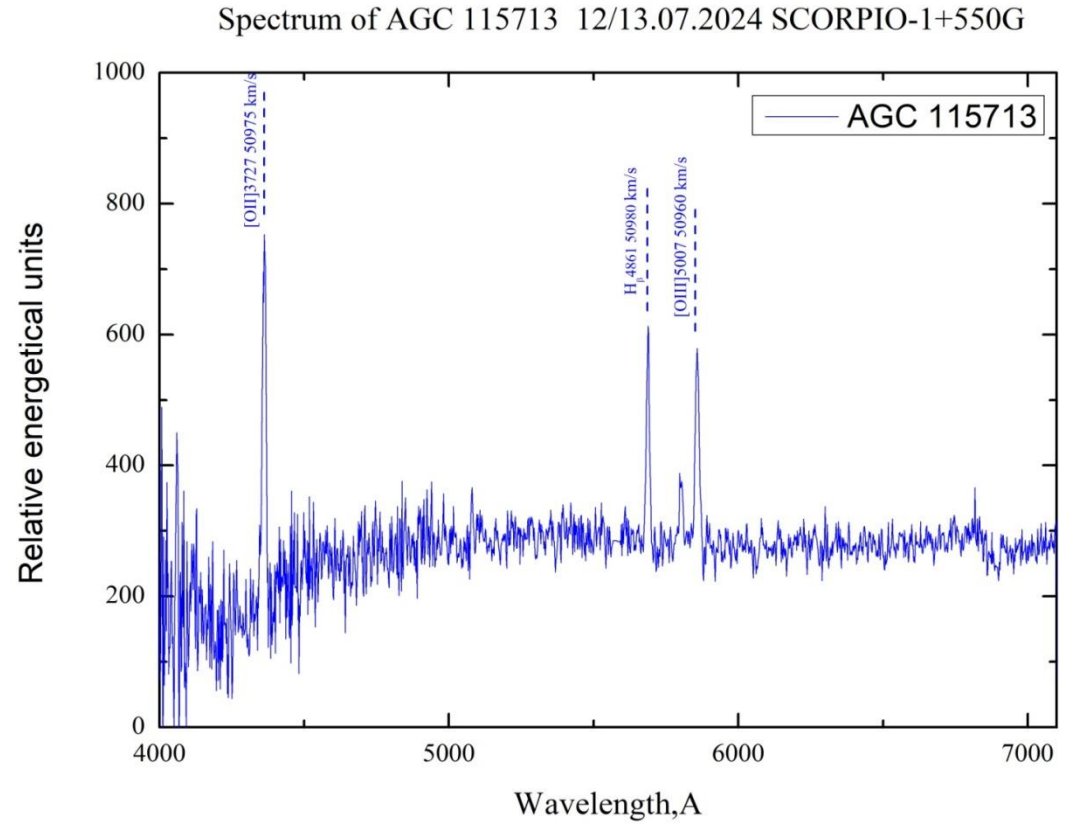
Комбинированный спектр SCORPIO-1:
1200B и 1200R

Общая скорость - 53500 ± 30 км/с

Candidate AGC115713



Вид на щели SCORPIO-1

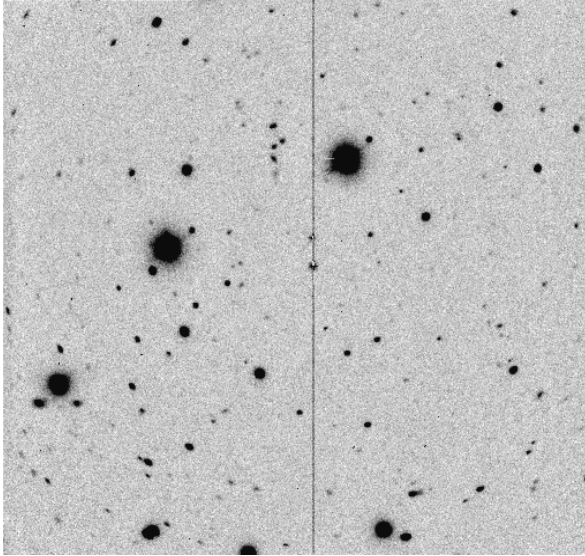


Спектр SCORPIO-1: 550G

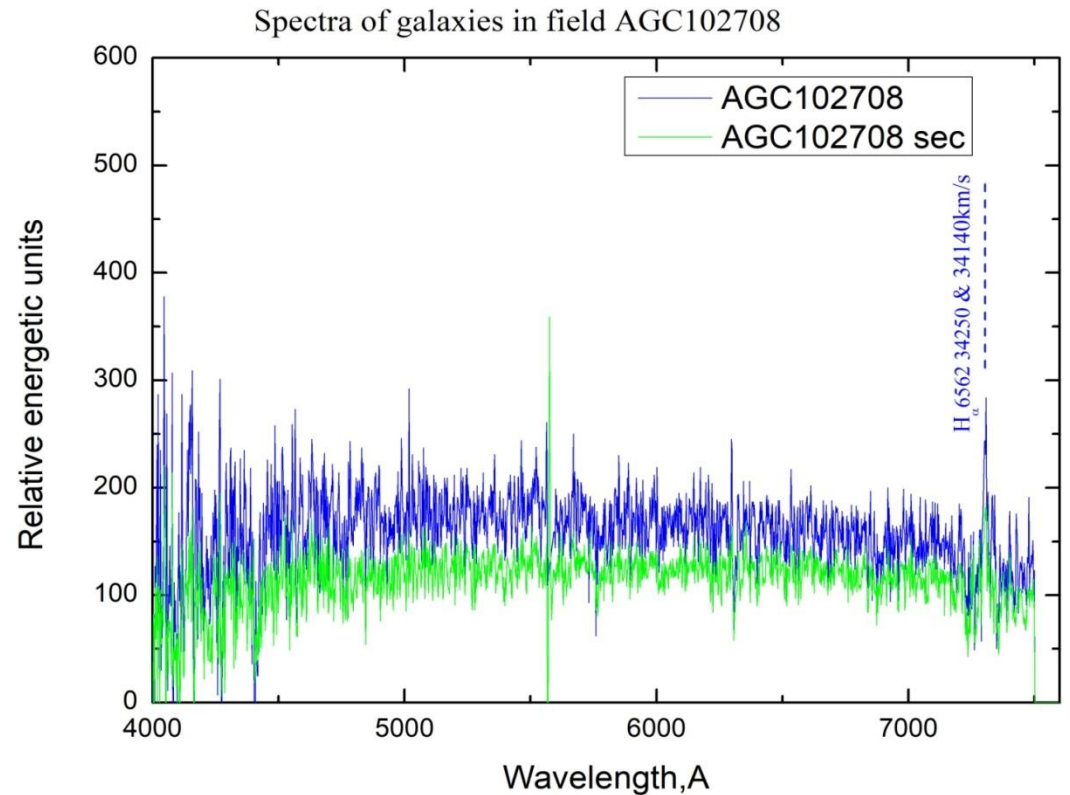
Общая скорость - 50975 ± 10 км/с

По линиям [OII]3727, [OIII]5007 и H_β 4861.

Candidate AGC102708



Вид на щели SCORPIO-1

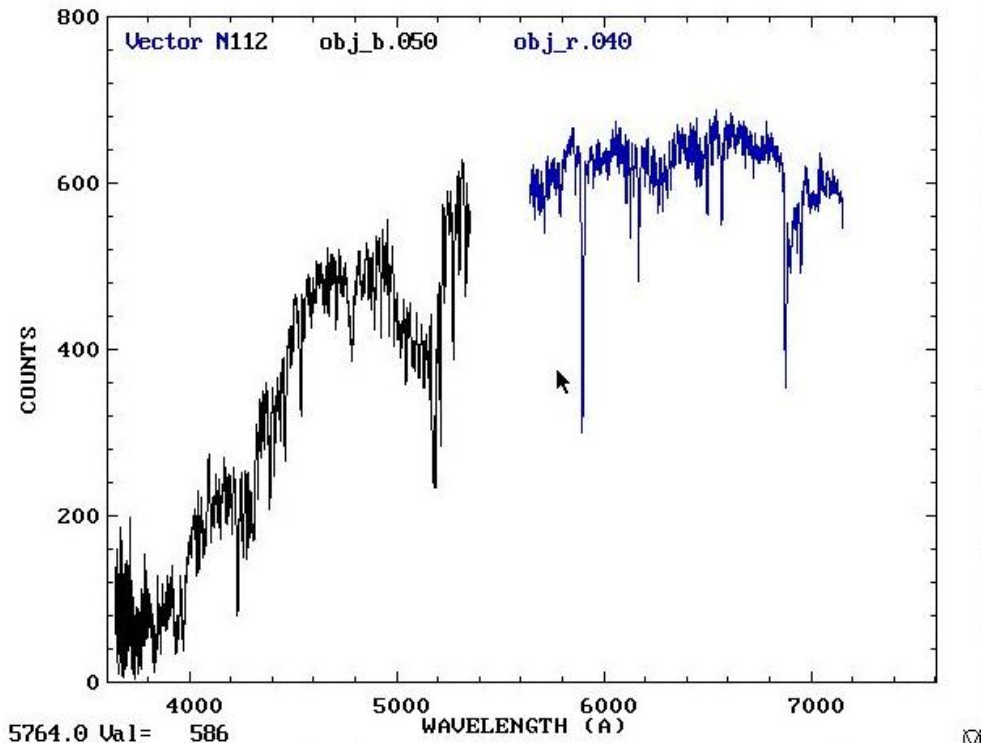
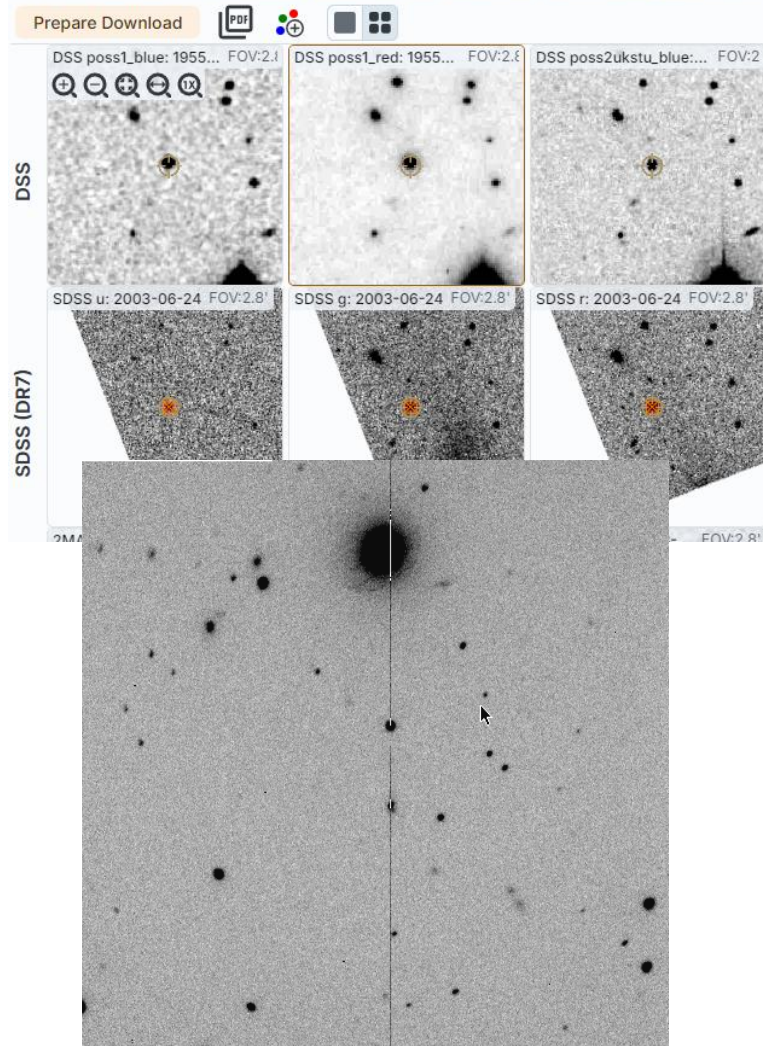


Спектр SCORPIO-1: 550G

Скорости галактик - 34250 и 34140±30 км/с
По линии H_α 6563.

Отождествление радиисточника MG1446+3110

Target= 14h46m36.30s +31d10m46.5s Equ J2000; Image Size=0.0833 deg; Sources=DSS,SDSS,2MASS,WI

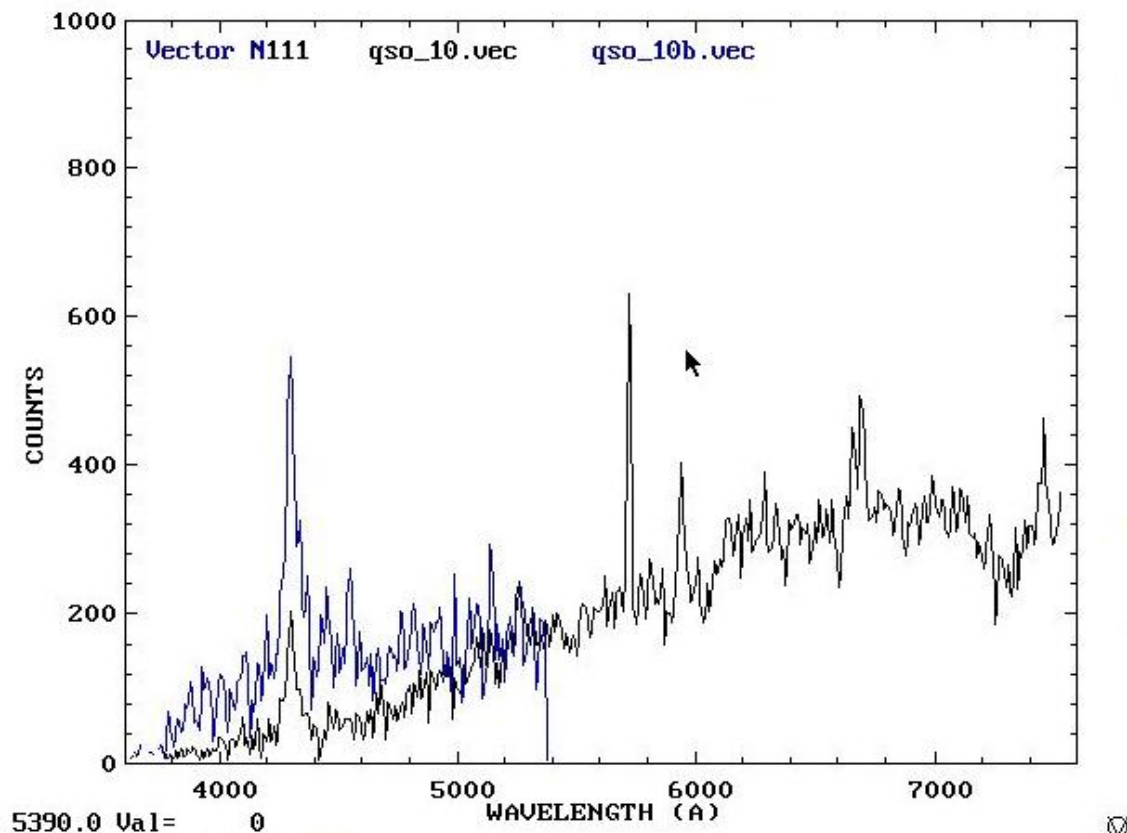
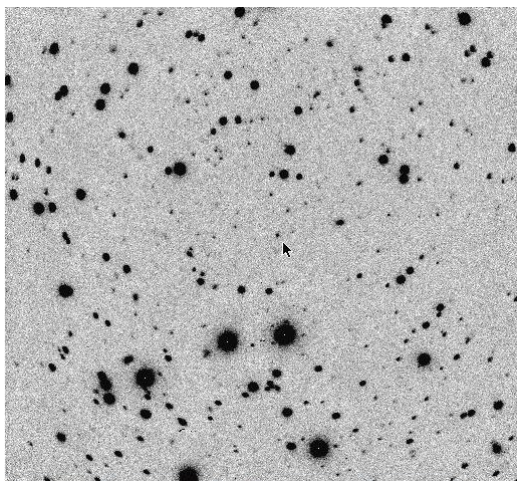


Спектр SCORPIO-1: решетки 1200B и 1200R

Увы – типичная звезда класса K4-K5 с $T=4500$ К

Ниже на щели – эллиптическая (скорее всего)
Галактика с $z=0.1155\pm 0.0003$

Уточнение красного смещения радиоисточника J1819+38



Приведены спектры полученные на SCORPIO-1 в ночи 29/30.06.2024 и 13/14.07.2024 с решетками 1200B и 550G.

Увыренно отждествлены – MgII 2800, [NeV]3426, [OII]3727, [NeIII]3869, H δ 4340+ [OIII]4363, H β на $z=0.5325\pm 0.0005$