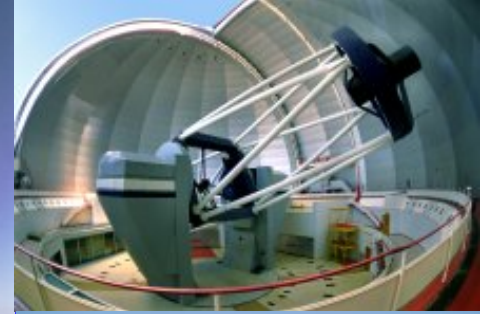


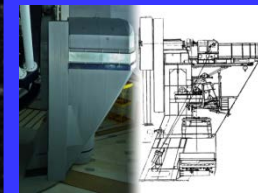
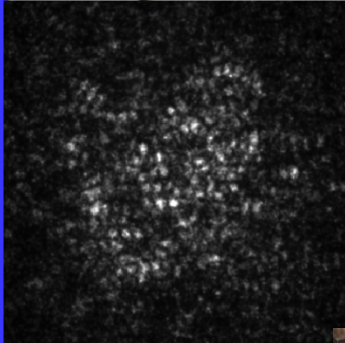
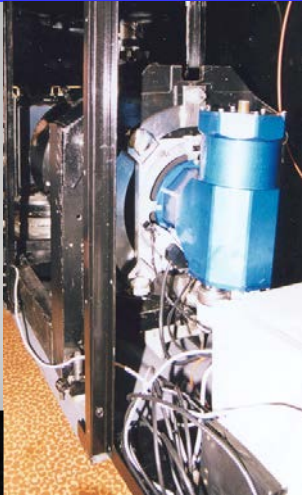
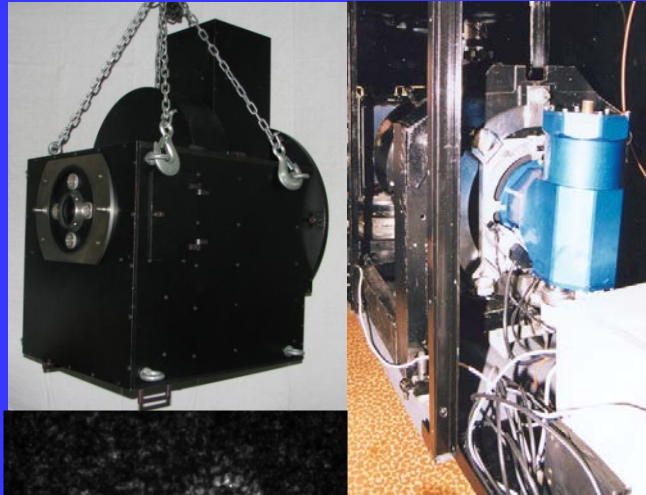
SAO RAS

- was founded in 1966
- Located in the North Caucasus, Nizhnij Arkhyz village.
- The 6-m telescope is located at the height of 2070 m above the sea level.
- Except the 6-m telescope, there are also 1-, 0.6- and 0.5-m telescopes.
- And big radio telescope RATAN-600





Instrumentation of the 6-m



Complete range of modern astronomical instrumentations for observations in near UV, visible, and near IR wavelength ranges:

1) High/moderate/low resolution spectroscopy-polarimetry.

2) Broad-band photometry and photopolarimetry

3) Diffraction-limited angular resolution imaging

4) High temporal (10^{-6} sec) resolution photopolarimetric imaging

etc

1-m telescope



Astronomical instrumentations for observations in visible wavelength range:

1) High/moderate/low resolution spectroscopy-polarimetry.

2) Broad-band photometry and photopolarimetry

Other small photometric telescopes



600-m radio telescope RATAN-600



Diameter of circular antenna	576 m
Number of antenna elements	895
Size of an element	11.4 x 2 m
Geometrical area	15000 m ²
Effective area of full circle	3500 m ²
Wavelength range	1 - 50 cm
Frequency range	610 - 30000 MHz
Maximum angular resolution	2 arcsec
Accuracy of coordinate determination	1-10 arcsec
Flux density limit	0.500 mJy
Absolute brightness temperature limit	0.050 mK
Tracking time (South sector + Flat mirror)	1-3 h

RATAN-600, instrumentation



← There are possibilities to observe in different sectors of the RATAN-600 antenna with complete range of modern astronomical instrumentations for multichannel observations in 1-20 centimeter wavelength range.

Nowadays

SAO RAS is active in all areas of ground-based observational astrophysics: extragalactic, stellar, exoplanet and some other studies (asteroids, comets etc).



Thank you very much!