

NASMYTH ECHELLE SPECTROMETERS OF THE 6-M TELESCOPE

KLOCHKOVA V.G., PANCHUK V.E.

Special Astrophysical Observatory of the Russian AS,
Nizhnij Arkhyz, 357147, Russia

A spectral complex, containing three echelle systems (see Fig.1) is stationary located in the Nasmyth-2 platform of the 6-m telescope. A common slit head located on the "z"-axis of the telescope behind the slit head of the Main Stellar Spectrograph (MSS) is the principal feature of the complex. This will allow to use in the future some polarimetric and interferometric devices of the MSS, installed inside the slit head of the MSS. The medium resolution echelle spectrometer ZEBRA was described by Gazhur et al. (1990) and Klochkova and Panchuk (1991). The high resolution echelle spectrometer ESPAC was described by Klochkova et al. (1991), echelle spectrometer LYNX - by Klochkova (1991). Their main parameters are given in Table 1.

We are planning to substitute the ESPAK for an autocollimated echelle with the beam $d=260-300$ mm (Klochkova and Panchuk, 1991).

Table 1.

	λ_c	D	slit	No.	d	Camera	Grating
ZEBRA	3300	23	4x0.9	13	130	Bowen (1:1.4)	50 '/mm 27° IPCS
	8255	61					
ESPAC	4498	3	2x0.4	50	100	Triplet (1:3.7)	37 '/mm 63° CCD or IPCS
	8210	6					
LYNX	4034	6	1x0.8	34	100	Schmidt (1:1.7)	75 '/mm 63° CCD
	9156	13					

Remarks: λ_c - central wavelength (Å) for marginal orders on the frame, D - dispersion in Å/mm, slit - size in arc sec, No. - number of orders on the frame, d - the diameter of collimated beam in mm.

REFERENCES

Gazhur E. B., Klochkova V.G., Panchuk V.E.: 1990, *Sov. Astron. Lett.*, 16, 473-480.

Klochkova V.G., Panchuk V.E.: 1991, *Preprint of the Spets. Astrofiz. Obs. No.70.*
Klochkova V.G., Panchuk V.E., Ryadchenko V.P.: 1991, *Sov.Astron.Lett.*, 17,645-652.
Klochkova V.G.: 1991, *Dissertation*, Nizhnij Arkhyz,
Klochkova V.G., Panchuk V.E.: 1991, *Astrophys. Issled. (Izv. SAO)*, 33, 3-28.

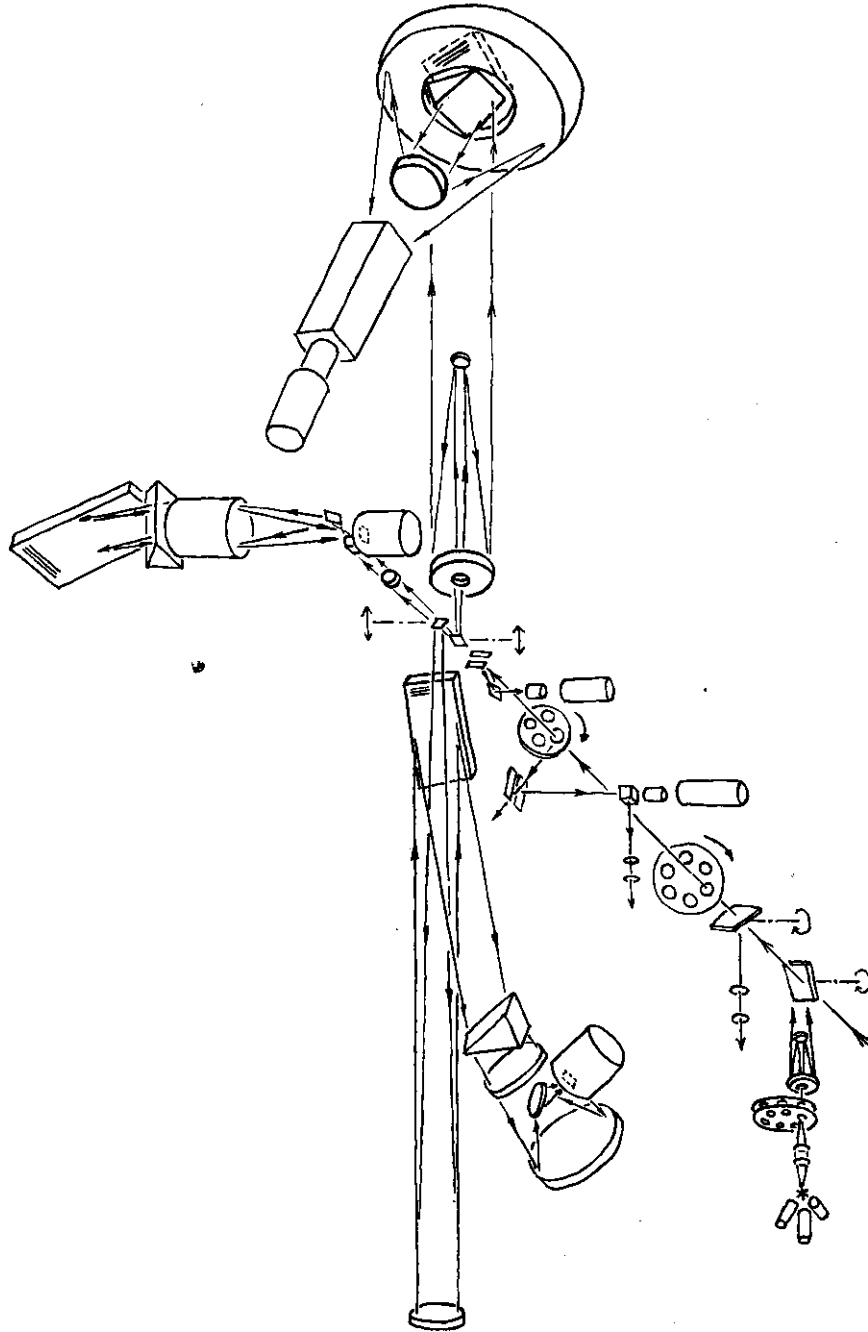


Fig. 1.