

Spectrographical observations are taken out with the DADOS or the BACHES spectrograph, both manufactured by [Baader Planetarium](#).

The DADOS spectrograph



 Our DADOS spectrograph

For the DADOS spectrograph we have a 200 lines/mm and 900nm/mm grating. Currently the 900 lines/mm grating is mounted and used for most of the observations. The basic data are partly taken from the Baader website.

Grating	Dispersion at 550nm		Spectral resolution $\frac{\lambda}{\Delta\lambda}$ at 550nm			Spectral range in nm
			25μm	35μm	50μm	
Line/mm	nm/mm	nm/3.76μm Pixel				QHY 268M
200	47.61	0.179	543	388	272	~9300
900	12.67	0.048	3818	2727	1909	~4400

Representative spectra that where taken with our DADOS spectrograph can be found [here](#).

Manual

A User's Guide, next to other helpful documents, can be found [here](#).

For the calibration we have a calibration module from Shelyak, for the operation of which we of course also have an [article](#) 😊

The BACHES echelle spectrograph



Our new BACHES spectrograph

The new echelle spectrograph from Baader Planetarium, which has been developed by the Max-Planck-Institut for extraterrestrial physics, has the following properties:

- Resolution: $R = \frac{\lambda}{\Delta \lambda} = 14,000-20,000$
- Wavelength range: $\lambda = 400-700 \text{ nm}$ (without gaps)
- maximum efficiency: 31%

Manual

The [Baader Product Page](#) provides helpful documents like the manual or the calibration instructions.

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