

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

The DADOS spectrograph

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Our DADOS spectrograph

The basic data are partly taken from the Baader webpage.

Grating	Dispersion at 550nm		Spectral resolution $\frac{\lambda}{\Delta\lambda}$ at 550nm with the 3 slit widths			Covered Spectral range in nm		
	Line/mm	nm/mm	nm/9μm Pixel	25μm	35μm	50μm	ST-7	ST-8
200	47,61	0,428	543	388	272	328	656	855
900	12,67	0,114	3818	2727	1909	87	174	227

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

Manual

[User's Guide \(PDF\)](#)

The BACHES echelle spectrograph



Our new BACHES spectrograph

The new echelle spectrograph from Baader Panetarium, 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

[User's Guide \(PDF\)](#)

[Baader Product page](#)

Calibration

[Calibration manual](#)

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