

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

The DADOS spectrograph



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		
	nm/mm	nm/9 μ m Pixel	25 μ m	35 μ m	50 μ m	ST-7	ST-8	STF-8300
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 were 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 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

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

[Baader Product page](#)

Calibration

[Calibration manual](#)

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