

Spectrographical observations are taken out with the DADOS or the BACHES spectrograph of [Baader Planetarium](#).

# The DADOS Spectrograph

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 Our DADOS spectrograph

The basic data are 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/nm             | nm/mm<br>Pixel | 25µm                                                                                | 35µm | 50µm | ST-7                         | ST-8 |
| 200     | 47,61               | 0,443          | 543                                                                                 | 388  | 272  | 328                          | 656  |
| 900     | 12,67               | 0,114          | 3818                                                                                | 2727 | 1909 | 87                           | 174  |

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:  $\lambda = 400-700$  nm (without gaps)

- maximum efficiency: 31%

## Manual

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

[Baader Product page](#)

## Calibration

[Calibration manual](#)

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