

SPICE Spectral Atlas

Observation configuration and data rate calculation

| Observing mode | Target | Line List | #Line Profiles | #Px /Profile | #Intens | Slit (") | Exp. time | # Mirror Pos | Step size | Tilt time | FOV (") | | Data cube (px) | | |
|---------------------------------|-------------------------|---------------|----------------|--------------|---------|------------|-----------|--------------|-----------|-----------------------|----------|------------|----------------|------------|-----|
| | | | | | | | | | | | X | Y | X | Y | Z |
| = study | | | (max=32) | | | 2/4 /6 /30 | (s) | =#exposures | (arcsecs) | (secs) | X | Y | X | Y | Z |
| Spectral Atlas (Atomic Physics) | Sun centre, limb,AR, CH | Full spectrum | 32 | 64 | 0 | 4 | 60 | 10 | 4 | 5.1 | 40 | 840 | 10 | 800 | 200 |
| | | | | | | | | | | 5s readout +0.1s step | scan dir | along slit | scan dir | along slit | =M |

Spectral-line performance

Line-SNR and spatial resolution combinations:

line-SNR>10 at 4"x2" in C-III, O-VI, Ne-VII, and Mg-IX-AR