

## 1.1.2.3 Abundance of minor ions as a function of height in the corona as indicator of slow or fast wind

### *Description of the objective:*

Abundance of minor ions as a function of height in the corona as indicator of slow or fast wind (Antonucci et al., 2006).

### *Remarks:*

- This is a SPICE-led observation. METIS cannot contribute to the study of the abundance, but it can give the context of the coronal configuration before the limb off-pointing or farther out.
- After METIS observations, we need to off-point to the limb in order to observe either a limb active region and/or along the boundary of a streamer.
- SPICE will observe with a narrow slit in order to enhance the resolution for properly measuring the abundance. A typical duration would be of 3.2 h.
- In the case of streamers, a bigger height can be studied from farther out, it is better to observe from a distance  $>0.55$  AU (for METIS support). In the case of active regions, the perihelion is preferred for higher resolution.
- It might be difficult to address this objective at the maximum of solar activity.
- This observation should be tested at least once to see if it works and depending on the success, re-plan it in the future.

The SOOP [R\\_SMALL\\_HRES\\_LCAD\\_Composition-vs-Height](#) is specifically designed for (and currently only serves) this objective.