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## Non-thermal parametric variations using Si IV and O IV spectral lines

*Wednesday, 8 September 2021 12:05 (13 minutes)*

We study the various regions of the Sun, using high-resolution spectral observations from the Interface Region Imaging Spectrograph (IRIS). We observe the Quiet-Sun observation targeting the same region using different exposure times at different times and study the variation in the different parameters such as electron densities and filling factors using O IV line probing the transition region. We discuss the non-thermal width variations of Si IV line, as well. These observations will be able to provide better insights into interpreting upcoming new observations from Solar Orbiter SPICE spectrometer.

### **Student poster?**

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