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

Wednesday, September 8, 2021 12:05 PM (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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