Contribution ID: **181** Type: **Poster**

Spectral diagnostics of a bright eruptive prominence detected with the Metis coronagraph

We present unique results of a recent study of bright eruptive prominence embedded in the core of a CME observed by the Metis coronagraph on board the Solar Orbiter on April 25-26, 2021. Metis provides simultaneous imaging in the hydrogen Lyman alpha line and in the VL. Triangulation is used to estimate the de-projected height and velocity of the structure. Based on previous studies of the He-D3 line polarization, we have estimated the intensity of the He-D3 line. These spectral observations are used together with the non-LTE diagnostics to derive physical parameters of this eruptive prominence observed very high in the solar corona.

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Session Classification: Coffee break and poster session 1

Track Classification: Energy and mass transfer throughout the solar atmosphere and structures within