

Metis detection of the helium D3 line polarisation in eruptive prominences

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Metis coronagraph on board of Solar Orbiter is detecting CME and eruptive prominences in hydrogen L-alpha line and in visible-light (VL) channel. VL channel between 580-640 nm provides Stokes measurements in I, Q and U. Interestingly, it contains the helium D3 emission line which is well known in prominences and its scattering polarisation provides the information about the magnetic field via the Hanle effect. We will report on the Metis VL detection of D3 emission and linear polarisation in a large eruptive prominence located very high in the corona. We will summarise theoretical aspects of the D3 line formation under prominence conditions and will outline the Metis capabilities to detect the magnetic fields in eruptive prominences.