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Physical Properties of Sunspots during an Eruption

We analyzed the properties of the magnetic field of a solar sunspot, which was closely associated with a solar eruption in active region AR 13079 observed on August 13, 2022, using modern computational techniques. Spektropolarimetric observations were obtained using the infrared spectrograph GREGOR (GRIS) on the 1.5-meter GREGOR Telescope. Our goal was to examine the magnetic and dynamic properties from the photosphere to the chromosphere above the solar sunspot.

Primary authors: BENKO, Martin (Astronomical Institute Slovak Academy of Sciences); Mr GÖMÖRY, Peter (Astronomical Institute Slovak Academy of Sciences)

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