



Contribution ID: 205

Type: Poster

Type III solar radio event observations on 22 August 2017 with LOFAR telescope

Monday, 6 September 2021 15:30 (13 minutes)

We hereby present the interferometric LOFAR observations of the solar radio event on 22 August 2017, during which the type III radio bursts have been detected. Solar radio image and dynamic spectra were recorded in the 10–90 MHz frequency band. Additionally to LOFAR observations, the data recorded by instruments onboard the Solar Dynamics Observatory (SDO) in the UV spectral range, GOES and RHESSI in X-ray spectral range complement observations in the radio field. Our study shows that the interferometric LOFAR observations, in combination with observations at other wavelengths can give better understanding of the environment in which the type III radio events occur.

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Session Classification: Poster Session 2.5

Track Classification: Session 4 - From Radio to Gamma Rays: Near-Sun Manifestations and Triggering of Solar Flares and Coronal Mass Ejections