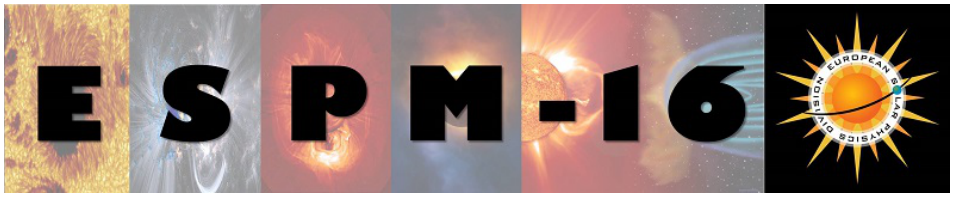

Contribution ID: **405** Type: **Invited talk**

Radio signatures of solar flares

Thursday, 9 September 2021 14:55 (20 minutes)

A solar flare is one of the most impressive solar phenomena emitting a wide range of electromagnetic emission from meter radio to gamma rays. The various mechanisms of radio emission generation allow following all stages of flare evolution from early pre-flare emission to decay phase. Nowadays, modern radio instruments (ALMA, EOVSA, MUSER, LOFAR, SRH, et cetera) provide spectral and spatial information within the range from THz to kHz. These observations allow the solar flare process study from the low chromosphere to interplanetary space. The talk presents the signatures of solar flare radio emission used as the process diagnostic in these phenomena, new achievements and methods that appeared thanks to new modern instruments and discuss the challenges which new observations of radio emission suggested for community discussion.

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