

NEUTRAL LINE ASSOCIATED SOURCES IN SYMPATHETIC FLARE ON 23 MARCH, 2024

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Neutral Line associated Sources (NLS) are microwave sources projected onto vicinities of the neutral line of the photospheric magnetic field, they often exist in active region structures before powerful solar flares. We discuss the role of NLS before the flare X1.1 on March 23, 2024. In this event both active regions NOAA 13614 and NOAA 13615, connected by a trans-equatorial loop, initialized the flare. So, it is possible to classify this flare as a rare sympathetic flare. We used data by the Siberian Radioheliograph to analyze NLS in this event. This instrument provides multi-wavelength two-dimensional microwave data in the range of 3–24 GHz that opens new possibilities to investigate solar phenomena.