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Reconnection within the erupting flux rope during a solar flare

We present indications of reconnection within the erupting flux rope which occurred during the impulsive phase of the Apr 2, 2022 flare. Combining data from ground-based radiospectrometers, EUV and X-ray data from different vantage points (STEREO, AIA/SDO, EUI/Solar Orbiter, STIX/Solar Orbiter, Fermi), we show that rare and unique radio bursts in the GHz frequency range are co-temporal with specific EUV structures. In addition, the X-ray sources are related to hot EUV loops and footpoints that are all located near or inside the magnetic rope and the erupting filament.

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