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The X8 limb flare SOL2017-09-10 observed at submillimeter

Tuesday, 25 May 2021 13:00 (40 minutes)

Active Region 12673 produced an X8.2 flare on September 10, 2017 at around 16:00 UT when it was rotating to the West limb of the Sun. The flare was partially occult to ground telescopes, therefore a significant fraction of the photospheric and part of the chromospheric emission may have not been observed from Earth. The Solar Submillimeter Telescope (SST) registered intense radiation at 212 and 405 GHz: the submillimeter emission during flares is often attributed to synchrotron radiation of relativistic electrons of sources at chromospheric heights. In this work we present flux density time profiles and source centroid positions determined with the SST unique multibeam method and comparisons with hard X- and gamma-rays from RHESSI and FERMI satellites.

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