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## Fermi Large Area Telescope observations of high-energy gamma-ray emission from behind-the-limb solar flares

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Fermi LAT  $>30$  MeV observations of the active Sun have increased the number of detected solar flares by almost a factor of 10 with respect to previous space observations. These sample both the impulsive and long duration phases of GOES M and X class flares. Of particular interest are the recent detections of two solar flares whose position behind the limb was confirmed by the STEREO-B satellite. While gamma-ray emission up to tens of MeV resulting from proton interactions has been detected before from occulted solar flares, the significance of these particular events lies in the fact that these are the first detections of  $>100$  MeV gamma-ray emission from footpoint-occulted flares. We will present the Fermi-LAT, RHESSI and STEREO observations of these flares and discuss the various emission scenarios for these sources.

### Collaboration

FERMI

### Registration number following "ICRC2015-I/"

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