

IRIS Observations of Plasma Heating and Dynamics in a Well-Observed M-Class Flare
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On 2014 February 13, IRIS observed an M1.8 flare with FUV and NUV spectrograph raster scans repeated every 43 seconds. The flare was also well covered with IRIS slit-jaw imagery, AIA imagery, and RHESSI imaging spectroscopy. Of particular interest are the dynamics and plasma characteristics of the flare footpoints, the flare loops, and the partially erupting filament, and how they relate to the sites of magnetic reconnection and particle acceleration. An initial analysis shows high (10^{13} cm^{-3}) density downward moving 10^5 K plasma near a HXR footpoints, upward moving 10^7 K plasma originating near the same location, and high rotational velocities in the partially erupting and untwisting filament above the hot flare loops.