

**Direct Observations of Reconnection Outflow and CME Triggering in a Small Solar Eruption Observed with IRIS, AIA and XRT**

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On May 1, 2014 at about 01:35 UT a small prominence eruption occurred at the limb of the Sun. Before the eruption, tendrils of coronal rain forming a dome shape above the prominence are seen in AIA 304 Å and the IRIS 1330 Å slit jaw imager. The eruption resembles a classic breakout reconnection scenario, but close inspection of the pre-eruption images indicates that tether cutting may also play a role. As the eruption occurs, effects of reconnection between the CME magnetic field and the overlying magnetic field are observed. At the IRIS slit, non-thermal widths of up to 50 km/s are seen in the Si IV 1393 Å line, along with large red-shifts indicating line-of-sight velocities up to 200 km/s. Bright material is seen flowing away from the reconnection site in the AIA 171 Å images. The plane-of-sky velocity of this plasma is found to be about 300 km/s. Taken together with the IRIS line-of-sight velocities, these measurements give a total speed of approximately 360 km/s, indicating that this plasma is probably due to the reconnection outflow. Temperature measurements derived from the AIA filters show a localized heating at the site of the reconnection, and later observations from XRT show a bright, hot loop extending to the south of the eruption.

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