

# Observational Evidence for Velocity Convergence Toward Magnetic Neutral Lines as a Factor in CME Initiation

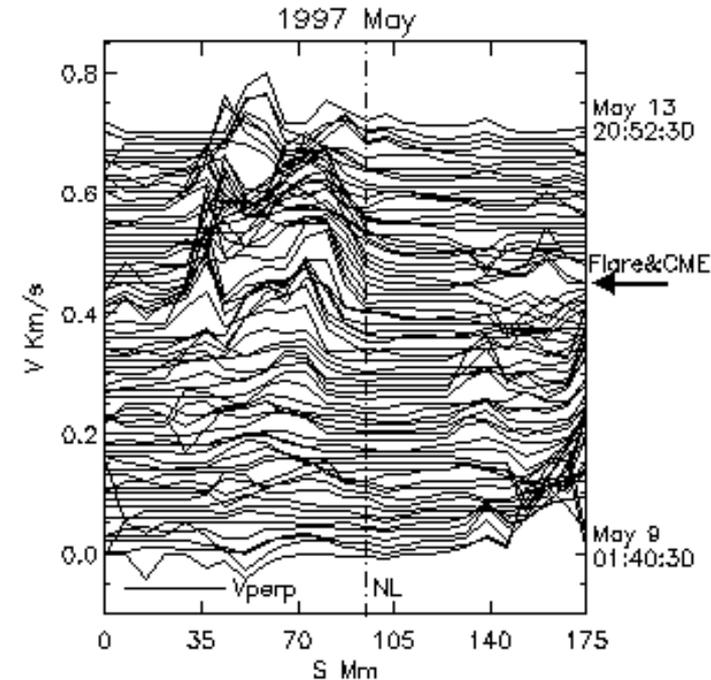
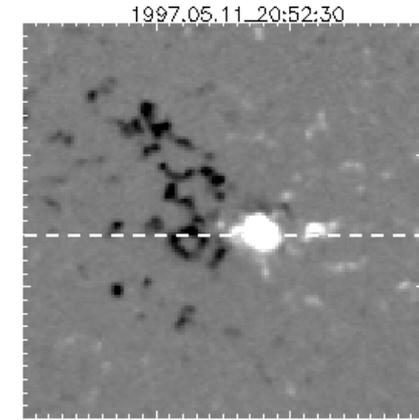
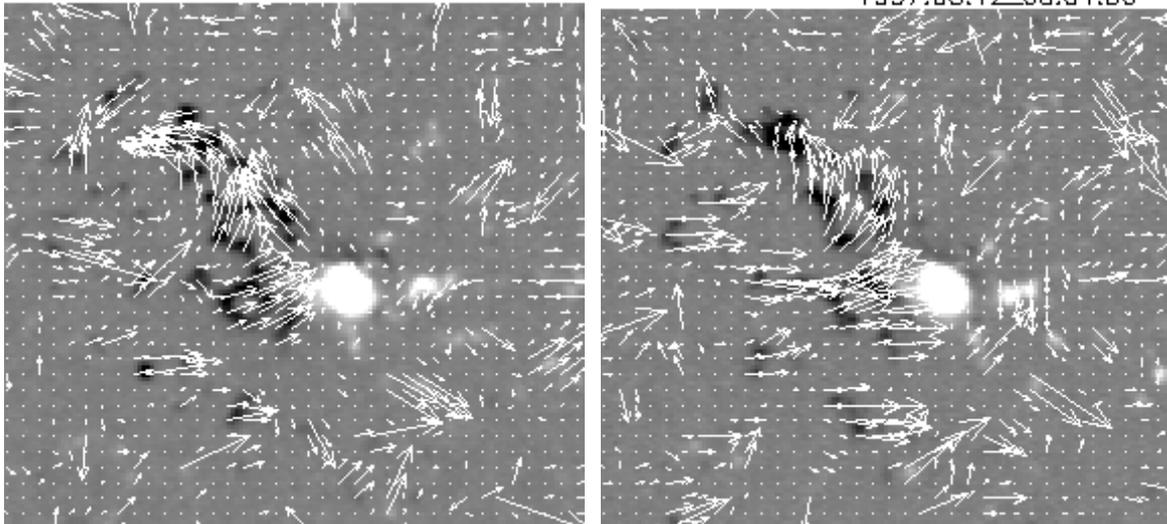
*Yan Li, J. Luhmann, G. Fisher and B. Welsch, UC Berkeley*

**Poster 5**

A leading candidate in CME initiation tested in several recent numerical simulations is photospheric magnetic flux cancellation by velocity convergence toward the neutral line.

1997.05.11\_20:52:30

1997.05.12\_08:04:30



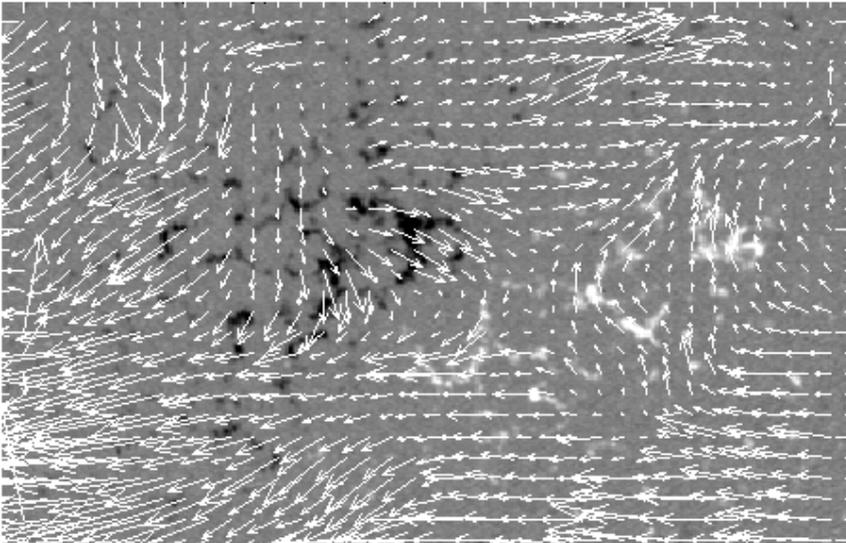
**Above:** Flow field in AR8038 around the May 12 97 CME from LCT and MDI magnetograms.

**Right:** Stack plot showing temporal evolution of the converging flow ( $V_{\text{perp}}$ ) toward the neutral line.  $V_{\text{perp}}$  values are obtained along the dashed line (top right) crossing the region with the maximum flow.

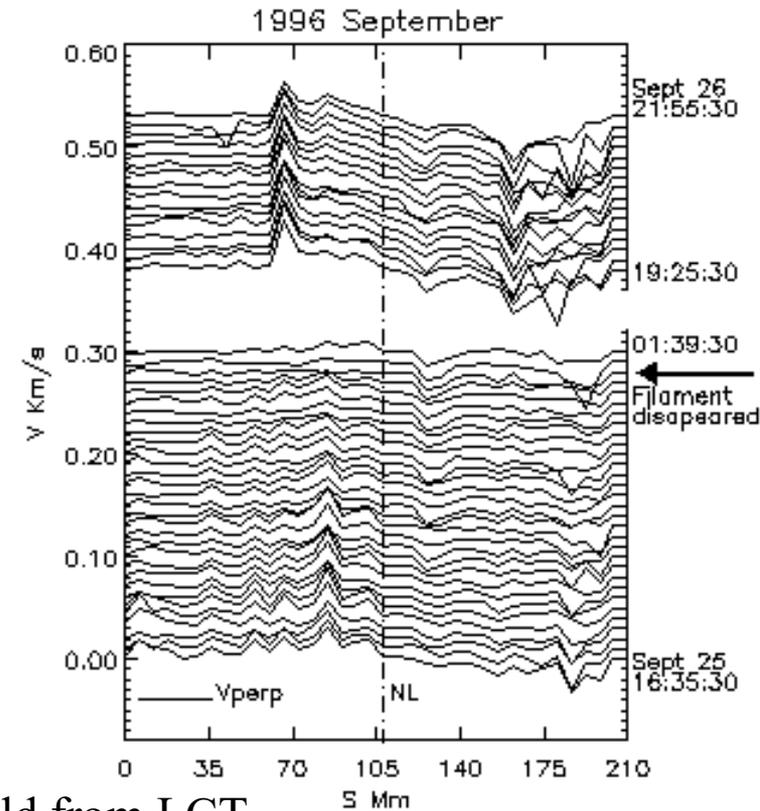
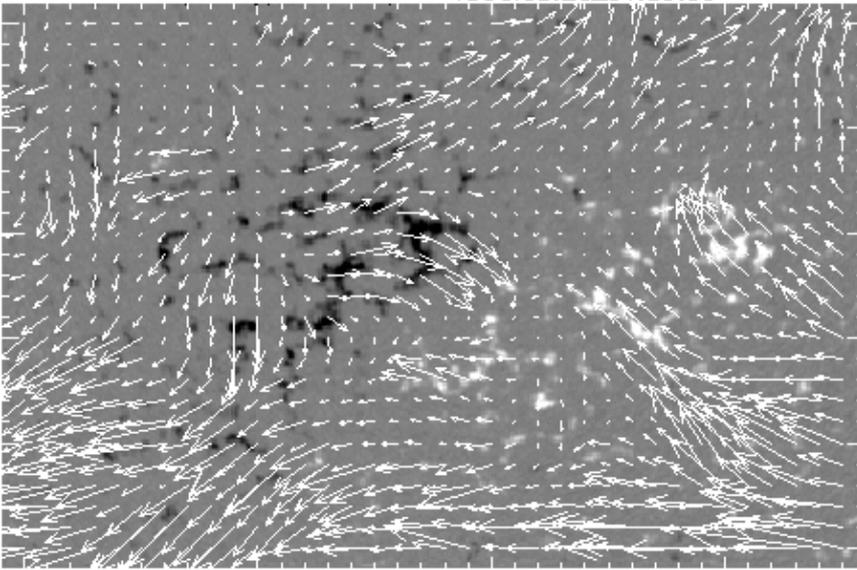
# LCT results for September 1996 decayed active region

*Yan Li et al. UC Berkeley*

1996.09.25\_18:15:30



1996.09.26\_01:39:30



**Left:** Flow field from LCT and MDI mags.

**Right:** Stack plot showing temporal evolution of the converging flow ( $V_{\text{perp}}$ ) toward the neutral line (dotted line in bottom right).

$V_{\text{perp}}$  values are obtained along the dashed line (bottom right) cross the maximum flow region.

