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Two-dimensional (three velocity) electrostatic particle simulations are used to investigate the particle heating and acceleration associated with the impulsive phase of a solar flare.

Chromospheric-coronal coupling during solar flares

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Chromospheric-Coronal Coupling During Solar Flares

Two-dimensional (three velocity) electrostatic particle simulations are used to investigate the particle heating and acceleration associated with the impulsive phase of a solar flare.

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Chromospheric and Coronal Magnetic Fields

complex and that the coronal magnetic field reconnects every hour-and-a-half according to the recent analysis of Close, Parnell, Longcope and Priest (2004). Indeed, if one includes the sub-resolution small-scale cell structure, Figure 6. Model of a coronal funnel acting as a source for the fast solar wind (from E Marsch).

CHROMOSPHERIC AND CORONAL MAGNETIC FIELDS

provide important information on the dynamics of the coronal and chromospheric plasma during a flare. Observations of the hard X-ray spectra show that impulsive flares can often be categorized by a hardening of the electron spectrum during the rise and peak of the X-ray emissions and a softening

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We present the first 2.5 dimensional numerical model calculations of the nonlinear wave dynamics and heating by resonant absorption in coronal loops with thermal structuring of the transition region and higher chromosphere.

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