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E. Tassi, P. J. Morrison, D. Grasso & F. Pegoraro 2010 Hamiltonian four-field model for magnetic reconnection: nonlinear dynamics and extension to three dimensions with externally applied fields. Nucl.

## [Study of driven magnetic reconnection in a laboratory plasma](#)

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The magnetic reconnection experiment has been constructed to investigate the fundamental physics of magnetic reconnection in a well-controlled laboratory setting. This device creates an environment satisfying the criteria for a magnetohydrodynamic plasma ( $S \gg 1$ ,  $\rho_i \ll L$ ).

## [Magnetic reconnection in plasmas | SpringerLink](#)

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A review of the present status of the theory of magnetic reconnection is given. In strongly collisional plasmas reconnection proceeds via resistive current sheets, i.e. quasi-stationary macroscopic Sweet-Parker sheets at intermediate values of the magnetic Reynolds number  $R_m$ , or micro-current sheets in MHD turbulence, which develops at high  $R_m$ . In hot, dilute plasmas the reconnection dynamics is dominated by nondissipative effects, mainly the Hall term and electron inertia.

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