

Magnetic Reconnection Sustained by the Thermonuclear Heating of the Electron Population

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Endogenous modes associated with a finite electron temperature gradient can be sustained by the electron temperature heating rate due to the charged reaction products in a fusion burning plasma [1]. In this case, the longitudinal thermal conductivity on selected rational magnetic surfaces [1] is decreased, relative to its collisional value, by the effects of reconnection. If the relevant decrease is significant rational magnetic surfaces can acquire a favorite role in the process of plasma heating by fusion reaction products.

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[1] B. Coppi, *et al.*, *Nucl. Fusion*, **55**, 053011 (2015).