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Current Sheet Proliferation and Coronal Heating

The instability of current sheets and subsequent reconnection of magnetic fields has long been considered an important source of coronal heating. Current sheets can form in a variety of different ways, both dynamically and quasi-statically, and they are likely to be far more numerous than most people realize. We can expect more than one hundred thousand of them to exist in a single active region. I will describe a picture of current sheet proliferation and discuss its relationship to MHD turbulence.