



## **Joint Cluster and Double Star observations of current sheet crossings in the magnetotail**

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We present a survey of current sheet crossings in the Earth's magnetotail, using data taken by the magnetometer and the high and low energy electron instruments on Cluster. The events are classified according to prevailing conditions, for each subset of which we compare the correlation between the energetic electron behaviour and the magnetic structure. The response of the current sheet in terms of its dynamics and structure are analysed. We also focus on conjunctions between the four Cluster spacecraft and the two Double star spacecraft. Although all six spacecraft orbits have apogees aligned near the same MLT, TC-2 rapidly samples field lines that map along the length of the magnetotail, TC-1 spends most of its time in the current disruption region (CD) of the near-Earth magnetotail at apogee (8-10RE), while Cluster crosses through the plasma sheet further down the tail (near NENL formation at ~19RE)