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Low frequency fluctuations in thin plasmasheet: 2D models and comparison with Cluster observations.

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We analyse different examples of low frequency plasmasheet pertubations observed by CLUSTER in conjunction with plasma flows. We extend our earlier 1D analysis (Fruit et al, 2004) that has demonstrated that in some occasions a simple 1 D model offers a remarkable agreement between the observations of kink and sausage modes and the theoretical prediction. We consider 2D models that are more appropriated for

the analysis of fluctuations observed during dipolarisations. We also investigate the Alfven wave propagation with a particular emphasis on the energy dissipation related to the resonant absorption or phase mixing processes.