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Gyrofluid investigation of finite β_e effects on collisionless reconnection

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We provide a gyrofluid model of a collisionless and magnetized plasma, valid for finite β_e , finite parallel magnetic perturbations and electron finite Larmor radius effects. This model is used to study the linear and non-linear evolution of magnetic reconnection and magnetic islands. Gyrofluid models provide an effective tool, complementary to kinetic models, for studying such effects.

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