



Contribution ID: 56

Type: Poster

## Gyrofluid investigation of finite $\beta_e$ effects on collisionless reconnection

*Tuesday 12 October 2021 14:50 (1h 50m)*

We provide a gyrofluid model of a collisionless and magnetized plasma, valid for finite  $\beta_e$ , 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.

**Authors:** GRANIER, Camille (Politecnico di Torino); GRASSO, Daniela; BORGOGNO, Dario; TASSI, Emanuele

**Presenter:** GRANIER, Camille (Politecnico di Torino)

**Session Classification:** POSTER SESSION

**Track Classification:** 10. Basic plasma theory