Contribution ID: **9** Type: **not specified**

Strong solutions for the nonhomogeneous MHD equations in thin domains

Thursday 12 January 2023 15:30 (1 hour)

We consider the nonhomogeneous incompressible Magnetohydrodynamic equations in a thin domain $\Omega := R$ $2 \times (0, ep)$, with. $ep \in (0, 1]$, and show the global existence of strong solutions. In addition, we prove that, as $ep \longrightarrow 0 +$, the velocity and magnetic field tends to vanish away from the initial time.

Author: ROJAS MEDAR, Marko (DMAT UTA)

Presenter: ROJAS MEDAR, Marko (DMAT UTA)