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 Room. T2 (Universitat de Barcelona)

 Online streaming (Zoom). Click here to join.

Solvability of boundary value problems for steady ideal magnetic fluids

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Magnetohydrodynamics plays a crucial role in understanding the behavior of plasma, electromagnetic fields, and fluid dynamics, providing a fundamental framework for studying phenomena in astrophysics, fusion energy, and space exploration. In this talk, we will present a short survey about the well-posedness of boundary value problems for steady ideal magnetic fluids. More precisely, we will first focus on the magnetohydrostatic equations (in two and three dimensions) and we will conclude with some ongoing work related to the steady magneto-hydrodnamic equations.