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Topology-preserving diffusion of magnetic fields

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In the 1990, Moffatt discussed a dissipative model of Magneto-hydrodynamics (that he called "magnetic relaxation"but could also be called "Darcy"or "Stokes"MHD), in order to get stationary solutions of the Euler equations with prescribed topology. We will discuss the corresponding PDEs and some concepts of generalized solutions related both to P.-L. Lions'dissipative solutions to the Euler equations and to the recent approach by Ambrosio, Gigli and Savare of the heat equation in general metric spaces.

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