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Steve Shkoller* (shkoller@math.ucdavis.edu), Department of Mathematics, University of California, Davis, CA 95616. *Well-posedness for the inviscid compressible MHD equations with free-boundary.*

We describe a new set of estimates that allow us to develop an existence theory for the free-boundary MHD equations in 3 space dimensions. This is joint work with D. Coutand and J. Grimm. (Received December 13, 2011)