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Taylor Instability in liquid metal columns and liquid metal batteries

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This talk presents our investigations of the Taylor instability in an incompressible, viscous and resistive liquid metal column and in a model of liquid metal battery. Liquid metal batteries (LMBs) have been recently proposed as a solution to meet future electrical energy storage problems. They are prone to instabilities like the Taylor instability.

Keywords: Liquid Metal Batteries, Magnetohydrodynamics, Multiphase flows

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