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**Slim Ibrahim\*** (ibrahims@uvic.ca), Department of Mathematics & Statistics, University of Victoria, PO BOX 1700 STN CSC, Victoria, BC V8W 2Y2, Canada, **Pierre-Gilles Lemarie**, Evry, France, and **Nader Masmoudi**, NY. *Title: Existence and Stability of small time-periodic solutions of the Navier-Stokes-Maxwell system.*

Abstract: We study the Navier-Stokes system coupled with Maxwell's equations via the Lorenz force. In the presence of small and time-periodic external forces, we construct a time-periodic solution in a “critical” type space. We also show the stability of this class of solutions. This is a join work with P.-G. Lemarie and N. Masmoudi (Received September 21, 2015)