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Asymptotic Stability of Dissipated Hamilton-Poisson Systems

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(Submitted on 21 Jul 2011)

We will further develop the study of the dissipation for a Hamilton-Poisson system introduced in \cite{2}. We will give a tensorial form of this dissipation and show that it preserves the Hamiltonian function but not the Poisson geometry of the initial Hamilton-Poisson system. We will give precise results about asymptotic stabilizability of the stable equilibria of the initial Hamilton-Poisson system.

Subjects: Dynamical Systems (math.DS)

MSC classes: 37C10, 37C75, 70E50 Cite as: arXiv:1107.4231 [math.DS]

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