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**Erik Bolt\*** (bolltem@clarkson.edu), Dept of Mathematics & Computer Science, Clarkson University, Potsdam, NY 13699. *Modeling and Comparing Non-conjugate systems*. Preliminary report.

We address a fundamental modeling issue in science as related to the field of dynamical systems: When is a model of a physical system a "good representation"? (Received January 21, 2008)