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Dane Wilburne* (dwilburn@hawk.iit.edu) and **Hisayuki Hara**
(hara@econ.niigata-u.ac.jp). *Markov Bases for Poisson and Multinomial Logistic Regression Models*. Preliminary report.

The complexity of Markov bases for a large class of Poisson and multinomial logistic regression models is in general not well understood. The configuration matrices of many such models can be viewed as generalizations of primitive partition identities (ppi). In this talk, we will explore the connection between these models and generalizations of ppi and see how it can be exploited to provide new complexity bounds in some cases. (Received August 10, 2015)