1046-06-121 **Ryan K Therkelsen*** (rtherke@ncsu.edu), Department of Mathematics, North Carolina State University, Box 8205, Raleigh, NC 27695-8205. *Order in the Conjugacy Poset of a Reductive Monoid.* Preliminary report.

Order in the Conjugacy Poset of a Reductive Monoid

Given a reductive monoid M with Renner monoid R and Gauss-Jordan elements $\mathcal{G}J$, there is associated a finite poset $(\tilde{R}, \leq)$ where $\tilde{R} = \mathcal{G}J/\sim$ and $\sim$ is conjugacy in R. $\tilde{R}$ can be decomposed into classes indexed by idempotents from the cross-section lattice of M. We briefly describe this decomposition and report on new results describing the order $\leq$, both within and between these classes. (Received July 29, 2008)