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**Paige E. Rinker\***, 6188 Kemeny Hall, Hanover, NH 03755. *Cluster Analysis of Heterogeneous Data on Rankings and Flags*. Preliminary report.

In 2007, Busse, Orbanz and Buhmann devised an efficient method for performing cluster analysis of particular kinds of ranking data. Their work focuses on data comprised of a mixture of complete rankings and “top- $t$ ” partial rankings, where  $t$  is allowed to vary. Here, we extend their method to partial rankings of arbitrary type and go on to describe a similar approach for cluster analysis of data on the flag variety for  $GL_n(\mathbb{F}_q)$ . (Received September 14, 2010)