

1106-AD-2200 **Michael E. Orrison*** (orrison@hmc.edu). *Basic Algebra of Voting*. Preliminary report.

Voting is something we do in a variety of ways, and the mathematics behind different voting procedures can sometimes seem daunting and disconnected. In this talk, I will discuss how basic ideas from linear algebra, abstract algebra, and representation theory can be used to unify some of the foundational ideas in voting, and how such an approach to voting theory can provide an intriguing yet friendly gateway to the subject. (Received September 16, 2014)