J. Gramain. *Basic Sets for the Alternating Groups.*

Basic sets, when they exist, are powerful tools to compute decomposition matrices of finite groups. In this talk, we show that, in odd characteristic p, the alternating groups have p-basic sets. We construct explicitly a basic set of the symmetric group, which then restricts to a basic set of the alternating group. This is joint work with Olivier Brunat (Ruhr Universität, Bochum).