

1075-13-217

**Sonja Petrovic\*** (petrovic@stat.psu.edu). *Constructing Markov bases for hypergraphs*. Preliminary report.

Algebraic statistics as a branch of applied algebraic geometry offers many computational challenges. I will describe a family of algebraic models associated to hypergraphs. The talk will outline recent theoretical results for this family, but implementing the construction of the basic invariants remains open. (Received August 30, 2011)