Hailong Dao\*, 405 Snow Hall, 1460 Jayhawk Blvd, University of Kansas, Lawrence, KS 6604. Some problems in combinatorial commutative algebra motivated by commutative algebra.
We will describe several problems in commutative algebra that have interesting combinatorial interpretations when specialized to the case of Stanley-Reisner rings: bounding projective dimensions, equality of ordinary and symbolic powers.
Some of the results are joint work with Craig Huneke and Jay Schweig. (Received August 08, 2012)