Meeting: 999, Nashville, Tennessee, SS 8A, Special Session on Algebraic Geometry and Commutative Algebra

999-13-268   **Giulio Caviglia*** (`caviglia@msri.org`), Mathematical Sciences Research Institute, 17 Gauss Way, Berkeley, CA 94720-5070. *Green's Hyperplane Restriction Theorem and the Eakin-Sathaye Theorem.* Preliminary report.

We show how the Eakin-Sathaye Theorem can be viewed as a corollary of Green's Generic Hyperplane Restriction Theorem. We present a modification of the Hyperplane Restriction Theorem, using which we outline a general method for deriving variations of Theorem of Eakin and Sathaye. In particular we recover some generalizations of the Eakin-Sathaye Theorem recently proved by O'Carroll. (Received August 24, 2004)