1048-55-200     **R Marangell\*** (`roble81@unc.edu`), The University of North Carolina, Department of Mathematics, CB #3250, Phillips Hall, Chapel Hill, NC 27599, and **R Rimanyi**. *The General Quadruple Point Formula and Applications of Thom Polynomials to Problems in Enumerative Geometry.*

The idea of applying multisingularity formulas to problems in enumerative geometry is well established. In this talk I will apply Thom polynomials to find the number of 4-secant linear spaces to smooth projective varieties. I will also discuss how characteristic classes and Thom polynomials can be used to find the number of incident singularities for a wide range of problems coming from enumerative geometry. (Received February 10, 2009)