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Jennifer A. Koonz* (koonz@math.umass.edu), Department of Mathematics and Statistics, Lederle Graduate Research Tower, University of Massachusetts, Amherst, MA 01003-9305. *New Combinatorial Methods for Computing the Intersection Cohomology Poincaré Polynomial for Schubert Varieties.*

We have defined a new polynomial which predicts the dimensions of the intersection cohomology groups of singular Schubert varieties in certain cases, including some non-rationally smooth cases. (Received August 11, 2012)