

1096-05-593

Benjamin J. Wyser (bwyser@uiuc.edu), UIUC Math Dept 1409 W. Green Street, Urbana, IL 61801, and **Alexander Yong*** (ayong@uiuc.edu), UIUC Math Dept., 1409 W. Green Street, Urbana, IL 61801. *Polynomials for $GL_p \times GL_q$ orbit closures in the flag variety.*

The subgroup $K = GL_p \times GL_q$ of GL_{p+q} acts on the flag variety GL_{p+q}/B with finitely many orbits. We introduce a family of polynomials that specializes to representatives for cohomology classes of the orbit closures in the Borel model. We define and study K-orbit determinantal ideals to support the geometric naturality of these representatives. Using a modification of these ideals, we describe an analogy between two local singularity measures: the H-polynomials and the Kazhdan-Lusztig-Vogan polynomials. (Received September 07, 2013)