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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 August 21, 2013)