

## The singularities of slices in the nilpotent cone.

**Abstract:** We report on the classification of singularities of slices between adjacent orbits in nilpotent cones, a story begun by Slodowy between the regular and subregular nilpotent orbits and solved completely by Kraft and Procesi in the classical groups. Of particular interest are slices between adjacent special orbits where there is a beautiful duality in all types that extends an observation of Kraft-Procesi for type **A**. This is joint work with Fu, Juteau and Levy.