

1077-22-186

Eric Sommers* (esommers@math.umass.edu), Dept of Mathematics and Statistics, LGRT,
UMass, Amherst, MA 01003. *The singularities of slices in the nilpotent cone*. Preliminary report.

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 associated to special pieces and between adjacent special orbits. This is joint work with Fu, Juteau and Levy. (Received August 09, 2011)