PETER CROOKS, University of Toronto
Equivariant projective compactifications of semisimple orbits

Semisimple adjoint orbits are affine varieties of interest to both algebraic and symplectic geometers. In particular, these orbits have been studied in the context of mirror symmetry, for which some understanding of their projective compactifications has been useful.

I will begin with an overview of complex adjoint orbits and their salient features, subsequently specializing to the semisimple case. Having done this, I will describe some joint work with Steven Rayan on constructing and understanding projective compactifications of semisimple orbits.