

## **Ana Balibanu**

### *The partial compactification of the universal centralizer*

Let  $G$  be a semisimple algebraic group of adjoint type. The universal centralizer is the family of centralizers in  $G$  of regular elements in  $\text{Lie}(G)$ , parametrized by their conjugacy classes. It has a natural symplectic structure, obtained by Hamiltonian reduction from the cotangent bundle  $T^*G$ . We consider a partial compactification of the universal centralizer, where each centralizer fiber is replaced by its closure inside the wonderful compactification of  $G$ . The symplectic structure extends to a log-symplectic Poisson structure on this partial compactification, whose fibers are isomorphic to regular Hessenberg varieties.