

A classical theorem of Chevalley relates the invariants for the adjoint representation of a semisimple group to the invariants for the action of the Weyl group on the Cartan subalgebra of its Lie algebra. We conjecture - and prove under some technical assumptions - a symplectic version of such a theorem relating quotients of finite symplectic groups with symplectic reductions for actions of reductive groups. This is a report on joint work with M. Bulois, C. Lehn and R. Terpereau.