Homotopy type

of equivariant symplectomorphism groups and embedding spaces

Pranav Chakravarthy

(ULB)

In this talk, we present results on the homotopy type of the group of equivariant symplectomorphisms of S^2xS^2 and CP^2 blown up once under the presence of a Hamiltonian circle and finite cyclic group actions. We show how questions about the homotopy type relate to questions about group action extensions. Time permitting, we shall also discuss upcoming work on homotopy type of equivariant embedding spaces and their relation to symplectomorphism groups.