

Young Women in Topology Meeting 2013
June 7-9, 2013 University of Bonn

Talk 1:
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S₅ Action with Rank 1 Isotropy on a G-CW-complex X Homotopy Equivalent to a Sphere

A good algebraic setting for studying actions of a group with isotropy given in a given family of subgroups is provided by the modules over the orbit category. In this talk, I will briefly talk about the orbit category and then I will give the construction of the finite G-CW-complex homotopy equivalent to a sphere on which the group S₅ acts with isotropy in the family of cyclic subgroups. This talk is a part of the paper Equivariant CW-Complexes and The Orbit Category which is a joint work with I. Hambleton and E. Yalcin.