Mathematics Department Topology Seminar

The connective k theory of finite groups

Kijti Rodtes
University of Sheffield, Sheffield, England

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Abstract

The real connective k homology of finite groups, $ko_*(BG)$, plays a big role in the Gromov-Lawson-Rosenberg (GLR) conjecture. In order to compute them, we can calculate complex connective k cohomology, $ku^*(BG)$, first, and then follow by computing complex connective k homology, $ku_*(BG)$ or by real connective k cohomology, $ko^*(BG)$. After we apply the Bockstein spectral sequence to $ku_*(BG)$ or the Greenlees spectral sequence to $ko^*(BG)$, we shall get $ko_*(BG)$. In this talk, we will illustrate how to compute $ku^*(BG)$ and $ku_*(BG)$ by using the method developed by Prof.R.R.Bruner and Prof. J.P.C. Greenlees, especially on semidihedral group of order 16.