

Oberseminar Topologie: 18.05.2020

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„The Picard group in equivariant homotopy theory via stable module categories.“

Abstract:

Invertible objects in G -genuine stable homotopy theory roughly correspond to G -spaces whose fixed points for all subgroups have the homotopy type of spheres. These are almost classified by tom Dieck and Petrie, but it is not completely known which dimensions of fixed point spheres can be realized. In this talk we want to discuss a new approach to this question which crucially involves stable module categories.