

A BRIEF INTRODUCTION TO EQUIVARIANT STABLE HOMOTOPY

Irakli Patchkoria (University of Bonn)

This is a survey talk mainly on the AMS memoir "Equivariant orthogonal spectra and S-modules" due to Mandell and May. We start by introducing the category of G -equivariant orthogonal spectra for a compact Lie group G . Then we explain how G -equivariant orthogonal spectra can be used to define the G -equivariant stable homotopy category. Further, we are going to discuss various fixed point functors and state some classical structural results. Finally, if time permits, some examples of equivariant cohomology theories will be presented.