

Talk Title: Commutativity in equivariant homotopy theory

Abstract: In recent years a lot of attention has been given to the various levels of commutativity in equivariant homotopy theory. Such levels are modelled by N_{∞} -operads of Blumberg and Hill. In the category of G -spectra, objects with a certain level of commutative multiplication have a corresponding incomplete Tambara functor structure on its zeroth homotopy groups.

In this talk I will describe algebraic models for the highest and lowest levels of commutative objects in rational G -spectra for a finite group G . I will also show how we used these algebraic models to deduce uniqueness of rational complex equivariant K-theory KU_G . This is joint work with A.M. Bohmann, C.Hazel, J.Ishak and C. May.