

Fifth annual conference of the SFB-TRR 195

Tuesday, Sept 14, 10:05 am

Birte Johansson

On the inductive condition for the McKay-Navarro conjecture

Local-global conjectures relate the representation theory of finite groups with that of their local subgroups. Starting with the McKay conjecture in 2007, many conjectures have been reduced to a question about simple groups. Since then, the resulting inductive conditions have been investigated and verified for many simple groups. Navarro's refinement of the McKay conjecture claims that the bijection from the McKay conjecture can be chosen such that it is equivariant under certain Galois automorphisms. In 2019, Navarro, Späth, and Vallejo proved a reduction theorem and gave an inductive condition for it. In this talk, we introduce this inductive condition and present some progress on its verification for some finite groups of Lie type.