

## **Isaacs--Navarro's Galois refinement of the McKay conjecture**

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The McKay Conjecture (now a theorem due to Cabanes and Späth) says that there is a bijection between the irreducible characters of a finite group with degree not divisible by  $p$  and the corresponding set for the normalizer of a Sylow  $p$ -subgroup. Several Galois refinements of this Conjecture exist, positing that such a bijection should exist that is compatible with fields of values. In this talk, I will discuss some of these conjectures, and in particular joint work with Lucas Ruhstorfer, in which we complete the proof of the original of these Galois refinements, proposed by Isaacs and Navarro in 2002. I will also discuss several consequences, giving additional relationships between character-theoretic properties and the local structure of a finite group.