



SUPERIORE. conferenze

Global-local properties of characters of finite groups

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Nell'ambito del corso
SEMINARIO DI ALGEBRA

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ore 11.00

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ore 11.00

In the last decade a couple of so-called global-local conjecture in the representation theory of finite groups have been reduced to strong versions of them on simple groups. An example is the McKay conjectures that claims that for any finite group G and any prime p the number of irreducible ordinary characters with p' -degree only depends on the normalizer of the Sylow p -subgroup of G in G . This conjecture has inspired others similar conjectures on the number of Brauer characters and also Dade's conjecture summarizing all of them. As in group theory the key to those inductive proofs behind the reduction theorems is a deeper understanding of the interplay between the representations of a finite groups and the representations of subgroups and quotients. The lectures will focus on the reduction theorem of the McKay conjecture and give also an idea how the McKay conjecture was verified for the prime 2.



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