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The self-normalizing case of the McKay conjecture

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Let p be a prime number and let G be a finite group. The McKay conjecture asserts that there exists a bijection between the irreducible characters of degree not divisible by p of G and those of the normalizer of a Sylow p -subgroup P of G .

We will study some special cases in which not only can we find a bijection between these two sets but a *natural* one. By *natural* we mean that an algorithm to compute the bijection is provided and the result does not depend on the choices made in its application.

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