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ON ALMOST p-RATIONAL CHARACTERS IN PRINCIPAL BLOCKS

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Abstract: Let p be a prime. In this paper we provide a lower bound for the number of almost p-rational characters of degree coprime to p in the principal p-block of a finite group of order divisible by p. We further describe the p-local structure of the groups for which the above-mentioned bound is sharp.

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Key words: Galois action on characters, principal blocks, height zero character.