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On a conjecture of G. Malle and G. Navarro on nilpotent blocks

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In a recent article, G. Malle and G. Navarro conjectured that the p -blocks of a finite group all of whose height 0 characters have the same degree are exactly the nilpotent blocks defined by M. Broué and L. Puig. In this paper, we check that this conjecture holds for spin-blocks of the covering group $2.A_n$ of the alternating group A_n , thereby solving a case excluded from the study of quasi-simple groups by Malle and Navarro.

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