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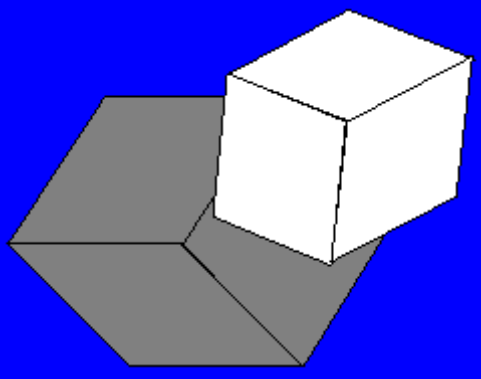

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Finite groups whose sums of irreducible character degrees of all proper subgroups are large

Xingzheng Tang, Shitian Liu

Some scholars investigated the influence of the sum of all character degrees of a finite group on group structure. In this paper, we will study the influence of sums of all character degrees of all proper subgroups of a finite group on its structure. We will show that a finite group G is solvable when all proper subgroups H of G satisfy $\mathrm{T}(H) \geq \frac{2}{3}|H|$, where $\mathrm{T}(H)$ is the sum of all character degrees of a finite group H.

(pp. 130–137)

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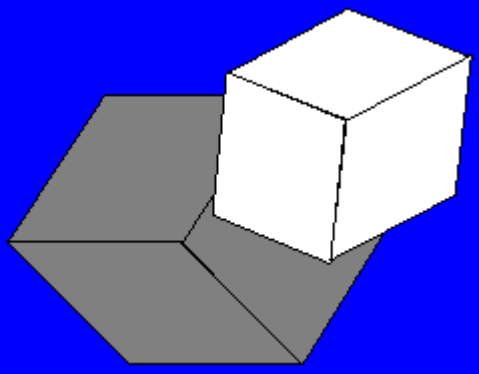

FORUM EDITRICE UNIVERSITARIA UDINESE
FARE srl
Via Larga 38 - 33100 Udine
Tel: +39-0432-26001, Fax: +39-0432-296756
forum@forumeditrice.it

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