ON CONSTRUCTIVE RECOGNITION OF FINITE SIMPLE GROUPS

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Given a finite group G, the set of its element orders is denoted by $\omega(G)$. If $\mathcal{M}$ is some set of positive integers, then a natural question is whether a finite group G with $\omega(G) = \mathcal{M}$ exists, and if so, can one describe all such groups? In our talk we deal with algorithmic aspect of this problem in a special case when G is simple.

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