

عنوان مقاله:

Centralizers in simple locally finite groups

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خلاصه مقاله:

This is a survey article on centralizers of finite subgroups in locally finite, simple groups or LFS-groups as we will call them. We mention some of the open problems about centralizers of subgroups in LFS-groups and applications of the known information about the centralizers of subgroups to the structure of the locally finite group. We also prove the following: Let G be a countably infinite non-linear LFS-group with a Kegel sequence $\mathcal{K} = \{(G_i, N_i) \mid i \in \mathbb{N}\}$. If there exists an upper bound for $|N_i| \mid i \in \mathbb{N}$, then for any finite semisimple subgroup F in G the subgroup $C_G(F)$ has elements of order p_i for infinitely many distinct prime p_i . In particular $C_G(F)$ is an infinite group. This answers Hartley's question provided that there exists a bound on $|N_i| \mid i \in \mathbb{N}$.

کلمات کلیدی:

Centralizer, locally finite, simple groups

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