

Numerations of the partially ordered sets and generalized Coxeter groups

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We discuss a project in which combinatorics of the posets are studied together with some class of groups
Distributive lattices $L(P)$ of ideals of poset P . Hasse diagram of $L(G)$, Example: Young graph. Finite (countable) Coxeter group $G(P)$ associated with finite (resp.countable) poset (P) Problem: When $G(P)$ is isomorphic to a classical Coxeter group? A classification of the posets dependently of classification of the central measures on $L(P)$. Concrete problems and conjectures.

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