

Quasi-flatness of abelian subgroups of Garside groups

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Garside groups provide a lattice-theoretic generalization of braid groups and finite type Artin groups. In the talk, we show that for every abelian subgroup H of a Garside group, some conjugate $x^{-1}Hx$ consists of ultra summit elements. Using this property, we show that the centralizer of H is a finite index subgroup of the normalizer of H . Combining with the results on translation numbers in Garside groups, we obtain an easy proof of the algebraic flat torus theorem for Garside groups.

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