

# **SUPER SUMMIT SET AND EXTRACTING ROOTS IN GARSIDE GROUPS**

HAO ZHENG

Garside groups have been introduced as a natural generation of braid groups and, more generally, Artin groups of finite type, where the super summit set, as a conjugacy invariant, plays an important role. In this talk, we study the problem of extracting roots in Garside groups and reduce it to the calculation of certain super summit sets. In addition, a new conjugacy invariant smaller than the super summit set is defined.

PEKING UNIVERSITY