Properties of translation numbers in Garside groups

SANG JIN LEE

The translation numbers of an element in a combinatorial group is defined as the asymptotic word length of the element. The discreteness properties of translation numbers have been studied for geometric groups such as biautomatic groups and hyperbolic groups. The Garside group is a lattice-theoretic generalization of braid groups and Artin groups of finite type. In this talk, we discuss recent results on the discreteness properties of translation numbers in Garside groups, and their applications to the conjugacy problem.

Konkuk University