

Conjugacy Classes in Coxeter Groups

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A Coxeter group can be thought of as the automorphism group of some geometric object, called its Coxeter complex. This is a simplicial complex, which can be further equipped with a non-positively curved metric (i.e., a CAT(0)-metric). This provides a very powerful tool to study Coxeter groups. We will illustrate this by describing the conjugacy classes in (some finite-index subgroup of) any Coxeter group.

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