

Algebra/Topology Seminar

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OUTER AUTOMORPHISMS OF RIGHT-ANGLED COXETER GROUPS

Thursday, October 19, 2017

1:15 p.m. in ES-143

ABSTRACT. We will discuss recent results on the structure of the outer automorphism group of a right-angled Coxeter group (RACG), comparing these with known results for the mapping class group, $\text{Out}(F_n)$, and outer automorphism groups of right-angled Artin groups (RAAGs). We will show that outer automorphism groups of RACGs are either large or virtually abelian, and give a condition on the definite graph that distinguishes these cases. As a consequence, this implies that Out of a RACG has property (T) if and only if it is finite. This is joint work with Andrew Sale.