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Outer space for right angled Artin groups

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Abstract

Right-angled Artin groups are finitely generated groups whose only relations are commutator relations between pairs of generators. This class of groups may be thought of as interpolating between free groups and free abelian groups. Thus, outer automorphism groups of right-angled Artin groups interpolate between $\text{Out}(F_n)$ and $\text{GL}(n, \mathbb{Z})$. We discuss progress on a project to generalize Culler and Vogtmann's outer space for free groups to outer space for right-angled Artin groups.

This is joint work with John Crisp and Karen Vogtmann.