

Boundary actions of CAT(0) spaces and their C^* -algebras

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Abstract

In this talk, I will demonstrate some new examples of strongly purely infinite C^* -algebras with origins from geometric topology, which include actions of right-angled Artin/Coxeter groups on certain boundaries and actions of generalized Baumslag-Solitar (GBS) groups on the boundaries of their Bass-Serre trees. This framework even provides a new criterion for determining the C^* -simplicity of certain GBS groups. This is joint work with Daxun Wang.