

Confined subgroups in groups with contracting elements

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In this talk, we study confined subgroups in groups with contracting elements. This class of subgroups generalizes normal subgroups and has recently received many interests in semi-simple Lie groups. We shall focus on growth of confined subgroups and their relation with conservative action on boundary. Our results apply to fundamental groups of Riemannian manifolds with negative curvature and mapping class groups. This represents a joint work with Inheyok Choi, Ilya Gekhtman, and Tianyi Zheng.

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