Contracting Boundaries
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Boundaries of hyperbolic spaces play an important role in the study of hyperbolic groups. Analogous boundaries exist for CAT(0) spaces but they are not quasi-isometry invariant and hence do not give a well-defined boundary for a CAT(0) group. I will discuss a new type of boundary, the contracting boundary, for a CAT(0) space. This boundary is quasi-isometry invariant and shares many properties with hyperbolic boundaries. The talk will conclude with an application to right-angled Coxeter groups. (Joint work with Harold Sultan)