

Partially CAT(-1) groups

Abstract: This talk will be dedicated to the geometry of groups acting on non-positively curved spaces which are negatively curved at least at one point. Such spaces include Riemannian manifolds whose sectional curvature is nonpositive everywhere and negative at least at one point. More precisely, I will explain the following statement: if a group acts geometrically on a geodesically complete CAT(0) space which admits at least one point with a CAT(-1) neighborhood, then it must be either acylindrically hyperbolic or virtually cyclic.