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Titre: Detecting deformations of hyperbolic manifolds and normal growth

Abstract: Given a closed, negatively curved manifold one may ask whether this manifold can be equipped with a metric of constant negative curvature. While the answer to this question is a short, though non-trivial, "Always" in dimensions 2 and 3, things change from dimension 4 upwards, where there are entire families of counter-examples and hard-to-determine invariants that characterise admittance of a constant curvature metric. In this talk we present a way to detect admittance of a constant curvature metric in terms of a codimension one submanifold and the growth rate perpendicular to that submanifold. If time permits, we will discuss a family of manifolds that do not admit constant curvature metrics and show what our result implies for them.