

Free curvature generalizations of hyperbolic identities

Florent Balacheff¹

¹ Universitat Autònoma de Barcelona, Bracelona, Spain

The aim of this talk will be to present certain results for manifolds lying at the interface between hyperbolic geometry and Riemannian geometry. More precisely, certain identities (or inequalities) specific to hyperbolic geometry admit a natural counterpart in Riemannian geometry. We will explain several results illustrating this point of view. Joint works with David Físac, Louis Merlin and Wolfgang Pitsch.