ERIC BAHUAUD, Seattle University

Analytic semigroups, bounded geometry and geometric flows

Semigroup methods provide an elegant abstract framework for studying parabolic evolution equations. In this talk I will describe joint work with Guenther, Isenberg and Mazzeo providing a criterion for a geometric elliptic operator to generate an analytic semigroup on weighted Hölder spaces on manifolds with bounded geometry. I will then outline a few applications to geometric flows.