

POSITIVE SCALAR CURVATURE WITH POINT SINGULARITIES

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I will review a selection of rigidity results that have played an important role in scalar curvature geometry in recent years. I will place particular emphasis on problems involving Riemannian metrics with point singularities. This includes a topological construction of positive scalar curvature (psc) metrics with uniformly Euclidean (L^∞) point singularities on manifolds that do not admit smooth psc metrics. Based on joint work with Simone Cecchini and Georg Frenck.