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Benjamin Schmidt* (schmidt@math.msu.edu). *Positively curved manifolds with large conjugate radius.*

Let M denote a complete simply-connected Riemannian manifold with $sec \geq 1$. I'll discuss three rigidity theorems characterizing the compact rank one symmetric spaces that follow from the following injectivity radius estimate: if the conjugate radius of M is at least $\pi/2$, then the injectivity and conjugate radii of M coincide. (Received August 08, 2010)