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Collapsed manifolds with Ricci curvature and local rewinding volume bounded below

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A Riemannian manifold is collapsed, if any unit ball has small volume. The local rewinding volume of a metric ball $B_r(x)$ is the volume of $B_r(x^*)$, where $(U^*(x, r), x^*) \to B_r(x), x)$ denotes the Riemannian universal covering space. We will report recent work on collapsed Riemannian manifolds with Ricci curvature and local rewinding volume bounded below.

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