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Alexandrov and Integral Current Spaces (with Jaramillo, Rajan, Searle and Siffert).

Saturday, June 24, 2017 1:30 PM (1 hour)

In this talk we will see that given a closed, orientable Alexandrov space (X, d) we will define an integral current T defined on X with weight equal to 1 and boundary of T equal to zero. In other words, this extends to Alexandrov Spaces the canonical current defined on a closed oriented Riemannian manifold. We will recall that non collapsing sequences of closed oriented compact Riemannian manifolds with a uniform diameter upper bound and a uniform lower Ricci curvature bound have subsequences that converge in both intrinsic flat and Gromov-Hausdorff sense to the same limit space. Thus, at the end of the talk we will study the intrinsic flat convergence of sequences of Alexandrov Spaces.

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