

## **Synthetic Ricci curvature for the Heisenberg group**

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Lott and Villani and simultaneously Sturm recently introduced a property for geodesic metric measure spaces  $(X, d, m)$  that has to be understood as an uniform lower bound for Ricci curvature (which usually only make sense for Riemannian manifolds). This property called “curvature-dimension” involves mass transportation and especially the behaviour of entropy functionals on the space of probability measures of  $X$ . We will investigate what happens when  $X$  is the sub-Riemannian Heisenberg group. The property does not hold but surprisingly the weaker “measure contraction property” does.