Stability of n-tori

with

lower Ricci curvature bounds

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In this talk we will combine harmonic 1-forms with spinors in order to show that a non collapsing sequence of n-tori with a common lower bound on their Ricci curvatures such that the negative part of their scalar curvatures converges to zero will have a subsequence which converges in the measure Gromov-Hausdorff metric to a flat n-torus. This is joint work with Zhizhang Xie.