

Connectedness of toric manifolds through toric cone KE metrics

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Cone metrics are Kahler metrics on Kahler manifolds with a cone angle along some divisors. In this talk, I will show the existence of cone Kahler Einstein metrics on any toric manifolds, and as an application, I will explain how we can connect any toric manifolds with the same dimension in the Gromov-Hausdorff topology, through the toric cone KE metrics. This is a joint work with V. Datar, J. Song, and X. Wang.