

Geometry, Topology and Dynamics Seminar

A new continuity method and the geometry of Kahler manifolds

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Abstract: I will discuss the properties of a new continuity equation designed by myself and Gang Tian to study the geometry of Kahler manifolds via a geometric analytic generalization of the Minimal Model Program. This is a (degenerate) elliptic equation which (unlike the Ricci flow) preserves the lower bound on the Ricci curvature and therefore allows the use of Cheeger-Colding regularity theory to control Gromov-Hausdorff limits of sequences of solutions and therefore analyze the singularities at the singularity time (and possibly allow the introduction of surgery)

Monday, January 23 at 3:00 PM in SEO 636
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