DIFFERENTIAL GEOMETRY/PDE SEMINAR

Wednesday, January 13, 2016
Padelford C-36
4PM–5PM

Rigidity of Entire Self-Shrinking Solutions to Kahler-Ricci Flow with Strictly Real Convex Potential

Wenlong WANG
(Peking U/UW)

G. Drugan, P. Lu and Y. Yuan have proved that every complete entire self-shrinking solutions on complex Euclidean space to the Kahler-Ricci flow must be generated from quadratic polynomials. We prove above result under the strictly convexity condition for the Kahler potential, but removing the completeness assumption. Our argument can also give a pointwise approach for the rigidity of entire self-shrinking solution to the Lagrangian mean curvature flow in pseudo-Euclidean space, which was obtained by Y.L. Xin and Q. Ding. In complex one dimension case, we can remove extra assumptions by a different method.

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