

HARMONIC MAP FLOW WITH LOW D-BAR ENERGY

Speaker: Chong Song Xiamen University

Lecture

Time: 15:00-16:00, Friday, Nov. 15, 2019

Venue: Room 102, Shanghai Center for Mathematical Sciences

Abstract: We show that for an initial map with low d-bar energy, the harmonic map heat flow from a surface into a Kähler manifold, though still may blow-up in finite time, has a continuous weak limit at the blow-up time. In particular, we obtain a bound on its blow-up rate and a decay estimate near finite time singularities, which is analogous to the elliptic case. This is a joint work with Alex Waldron.

 $b_i - (\sum a_{ij} x_j^{(k)})$

 $Y_{i} = \int y \frac{dx}{dx} \int_{j=1}^{x_{i}} a_{ij} x_{j}^{(k)} + \int (x, y) dx = \int y \frac{dx}{dx} \int_{x_{k}}^{x_{k+1}} a_{ii}$ $f(x, y) dx = \int y \frac{dx}{dx} = J$ $\int (y_{n} + 0.5\tau k_{1})^{2} + (t_{n} + 0.5\tau)^{2}$

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