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Extremal Kähler metrics and energy functionals on projective bundles

Haozhao Li

(Submitted on 26 Jul 2011)

In this paper, we prove the equivalence of the existence of extremal Kahler metrics and the properness of the modified K energy on projective bundles. Moreover, we discuss the relations of the lower boundedness of the K energy, the infimum of the Calabi energy and the extremal polynomials. In particular, we give an example where the modified K energy is bounded from below but not proper.

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