

SEMPARIS – Séminaires en région parisienne

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Séminaire Darboux - physique théorique et mathématiques

Jeudi 17 Janvier 2019, 11 :00

LPTHE, bibliothèque du LPTHE, tour 13-14, 4eme étage

Domaines : hep-th

Titre : *Kähler-Einstein metrics*

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Résumé : *Kähler metrics are a special class of Riemannian metrics, defined on complex manifolds, and locally expressed as the (complex) Hessian of a potential. Kähler metrics with constant Ricci curvature are called Kähler-Einstein, and come in three flavors, according to the curvature sign. I will review Aubin and Yau's classical existence and uniqueness results in the case of negative and zero curvature (Calabi-Yau metrics), and describe some aspects of the Yau- Tian-Donaldson conjecture, solved a few years ago, and which solves the existence problem in the case of positive curvature (Fano manifolds).*
