Lakeside Lectures

Speaker: Prof. Andrea Malchiodi
(Scuola Normale Superiore, Pisa)

Title: Variational structure of Liouville equations

Abstract:

Liouville equations arise when trying to uniformize curvatures or to extremise energies depending on spectra of surfaces. We consider cases when Gauss-Bonnet integrals are "large", as it might happen in presence of conical singularities. We attack the problem of existence of solutions combining geometric functional inequalities and a micro/macroscopic study of conformal volume distribution.

Date: Jan. 22 (Mon), 2018

Time: 14:00-15:00

Venue: Room 202, Astro-Math Building (NTU Campus)

Refreshment: 13:30

Organizers: I-Kun Chen, Volker Elling, Chun-Yen Shen