

SALZBURG MATHEMATICS COLLOQUIUM

Winter 2017/2018

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„Variational structure of Liouville equations“

November 30, 2017

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 prove existence of solutions combining geometric functional inequalities and a micro/macrosopic study of conformal volume distribution.

Thursday, **15:00-15:45**

Hörsaal 414, 1. Stock