

ANALYSIS AND DIFFERENTIAL GEOMETRY
SEMINAR

Analysis of Monge-Ampere functions

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Abstract: The notion of Monge-Ampere (MA) function, introduced by the speaker around 1989 and subsequently generalized by R. Jerrard around 2005, relaxes the strong positivity properties enjoyed by convex functions while preserving the integrality of their derivatives. For example, just as for a convex function there is a natural notion of the Hessian determinant measure for any MA function, with the added flexibility that in the MA case this measure may be signed. In this talk we will give the basic definitions and discuss the main properties and central open questions of this class.

Tuesday, November 24, 2015, 4:00 pm
Mathematics and Science Center: W301

MATHEMATICS AND COMPUTER SCIENCE
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