[Video] Weak Solution Concepts for Nonlinear Elliptic PDE and Associated Regularity

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Friday, April 16, 2010 - 2:30pm

We introduce and explore some concepts of weak solution for particular nonlinear partial differential equations. These notions have their roots in the fundamental work of A. D. Aleksandrov on the Monge-Ampere measure. We also consider applications to affine and complex geometry and to optimal transportation.

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