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

Neil Trudinger, Australian National University

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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.

Related Links:
Pacific Institute for the Mathematical Sciences
For all academic inquiries, please contact:

Math Student Services
C-36 Padelford
Phone: (206) 543-6830
Fax: (206) 616-6974
advising@math.washington.edu