

# A posteriori error control in the max norm for the Monge-Ampère equation

*Thursday, 13 June 2024 10:45 (45 minutes)*

This talk discusses a stability result for the Monge-Ampère operator in a (potentially regularized) Hamilton-Jacobi-Bellman format as a consequence of Alexandrov's classical maximum principle. The main application is guaranteed a posteriori error control in the  $L^\infty$  norm for the difference of the Monge-Ampère solution and the convex hull of a fairly arbitrary  $C^1$ -conforming finite element approximation.

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