

Preface

Habent sua fata libelli pro captu lectoris.

These notes are written up after my lectures at the University of Pittsburgh in March 2014 and at Tsinghua University in May 2014. My objective is the ∞ -Laplace Equation, a marvellous kin to the ordinary Laplace Equation. The ∞ -Laplace Equation has delightful counterparts to the Dirichlet integral, the Mean Value Theorem, the Brownian Motion, Harnack's Inequality, and so on. It has applications to image processing and mass transfer problems and provides optimal Lipschitz extensions of boundary values. My treaty of this “fully non-linear” degenerate equation is far from complete and generalizations are deliberately avoided—“Less is more.”

Trondheim
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