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*Numerical methods for Mass Transportation*

Numerical results for the mass transportation problem will be presented. The transportation problem with cost function which depend on the difference  $x - y$  will be considered. We approximate measures by atoms, and project to a finite dimensional linear programming problem, which can then be solved by standard methods.

Numerical results for linear, quadratic, and square root of distance costs will be presented.

We will also present a convergent finite difference method for solving the Dirichlet problem for the Monge–Ampère equation.