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Weighted Extrapolation in Grand Lebesgue Spaces and Some Applications

Weighted extrapolation theorems in grand Lebesgue spaces defined on quasi-metric measure spaces with doubling measure are derived. We consider both diagonal and off-diagonal cases. The derived results are applied to get new one-weighted inequalities in grand Lebesgue spaces. Appropriate weighted extrapolation theorems for multiple operators and multilinear operators are also derived. The investigation is carried out jointly with V. Kokilashvili.