

Seminar 2023

Math

Weighted L^p regularity for nondivergence elliptic equations

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Abstract: To the scope of the Schrodinger operator, we are interested in nondivergence elliptic operator $L := -a_{ij}D_{ij} + V$ with small-BMO coefficients a_{ij} and potentials V satisfying a reverse Holder condition. When we investigate the solvability of the equation $Lu = f$ with an adequate integrability condition of f , the Hessian estimates of the solution u play a crucial role.

In this talk, we give a brief history of such L^p type estimates and discuss a weighted version of Hessian estimates.



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