Qualitative properties of solutions to second-order elliptic and parabolic equations with coefficients from Kato classes

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Abstract

We discuss qualitative properties of solutions to second-order elliptic and parabolic linear and quasi-linear equations with lower order term from Kato classes. Amongst the properties that will be discussed are local boundedness, continuity, Harnack inequality, estimates of fundamental solutions and removability of isolated singularities.