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Regularity of Solutions for Some Degenerate Equations

Abstract

In this talk, I would report some recent results on the Gevrey (or analytic) regularities of solutions for some degenerate partial differential equations, which including (1) generalized Kolmogorov equations or linear Boltzmann equations), (2) Fokker-Planck equations, (3) Landau equations and (4) sub-elliptic Monge-Ampere equations.