



偏微分方程及其应用中心

学术报告

报告题目: Nonlinear Landau Damping for Screened Vlasov-Poisson System with a Radiation Damping Term

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地点: 数学院思源楼 615

摘要: This study is concerned with the nonlinear Landau damping for screened Vlasov-Poisson system with a radiation damping term near Penrose stable equilibria in \mathbb{R}^d (for $d \geq 3$). Applying a Lagrangian approach and basing on the precise pointwise estimates in the Besov norm, we establish the global-in-time and the optimal decay estimates for the density of the perturbed systems, which are the same as those for free transport. Meanwhile, the conclusion is also true for the two-particle Vlasov-Poisson system without damping term.