Seminar 2024 Math

Existence of solution for the nonlinear Vlasov-Poisson-Fokker-Planck Equation

유영석

연세대학교

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Abstract:In this talk, we discuss the existence of soluion for the nonlinear Vlasov-Poisson-Fokker-Planck Equation. For this, we first set perturbation and find perturbed system. Next, we will look for coercivity of linear part with macro-micro decomposition. Since the temperature has exponent , we divide cases and we consider $\beta=1$. Energy estimate and estimate about the dissipation of microscopic part are used to show the existence of soluton.



연세대학교 수학계산학부

주최: 4단계 BK21 수리과학 및 계산교육 연구단

