

Long time behaviour for a Vlasov-Fokker-Planck equation

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We consider a Vlasov-Fokker-Planck equation set for positions in the whole space. Under suitable confinement assumptions on the exterior forces and smallness on the interaction force, there exists a unique stationary solution, and all solutions converge to it exponentially fast. This is obtained by a contraction property between solutions, in Wasserstein distance. This is a joint work with A. Guillin and F. Malrieu.