

Long time behaviour of quantum and classical systems



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On the asymptotic analysis of the Einstein-Vlasov system

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The Einstein-Vlasov system is the natural generalization of the classical Vlasov-Poisson system in the context of the general theory of relativity. I will start by an introduction to the Einstein equations and relativistic (collisionless) kinetic theory. I will then present several results concerning the asymptotics and the global existence of small data solutions for the Einstein-Vlasov system with either massive or massless particles.

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