中国科学院

随机复杂结构与数据科学重点实验室



报告题目:	Stochasti	C 2	nalysis	s of	inf	inite	particle
	systems:	the	scheme	and	tail	method	1

报告人: Hirofumi Osada

 ・ 17:00

 ・ 2024年3月27日(周三) 16:00 - 17:00

 ・ N613

We consider dynamics of infinite particle systems in R d with (very strong) interactions. The dynamics are described by the infinite-dimensional stochastic differential equations (ISDEs). Lang initiated this type of ISDE. He solved the ISDE by Ito's method, which requires Lipschitz continuity (at least locally). Hence, the validity of Lang's approach was restrictive and could not be applied to long-range potential such as Coulomb potentials. In Osada-Tanemura (PTRF, **177**, 1137-1242, 2020), we developed a new approach to ISDEs called the scheme and tail method. In this talk, we would like to explain the basic idea of the method and its applications.

报告摘要: