学术报告

报告题目: Gradient-type estimates for the dynamic -model

报 告 人 : Pavlos Tsatsoulis (Bielefeld university)

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报告摘要: InthistalkIwilldiscussapossiblestrategytoderive -gradientboundsforthe Markov semigroupofthedynamic -modelonthetorus.Themethodisbasedon pathwiseestimatesof thelinearisedequationwithrespecttotheinitialdata.Tocompensatethelack of-exponential integrabilityofthestochasticdriversweuseastoppingtimeargumentandthestrong Markov propertyinspiredbytheworkof Cass-Litterer-Lyons,incombinationwiththe "comingdown frominfinity" propertytoobtainanestimatewhichisuniformintheinitialdata. Forsufficiently large mass , these type of -gradient bounds imply a spectral gap inequality with almost optimalcarreduchamp.

BasedonajointworkwithFlorianKunick.

报告人简介: Pavlos Tsatsoulis is currently a Postdoctoral researcher at Bielefeld University. Previously he was a Postdoctoral researcher at the Max Planck Institute for Mathematics in the Sciences. He was awarded his PhD degree by the University of Warwick under the supervision of Prof. Hendrik Weber. His research lies in the field of Stochastic Analysis with a particular focus to the study of qualitative and quantitative properties to (singular) SPDEs, such as well-posedness, regularisation properties, ergodicity, small noise asymptotics and synchronisation by noise.