数学与系统科学研究院 计算数学所学术报告

报告人: Prof. Yanzhao Cao

(Auburn University, USA)

报告题目:

On exponential convergence of the sparse grid spectral method for SPDES with random coefficients

邀请人: 周涛 博士

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计算数学所报告厅

Abstract:

In this talk, we will discuss fast sparse grid algorithms for SPDES with random coefficients orthogonal polynomials basis. main focus will be on the exponential convergence of the sparse grid spectral approximation when solution of the SPDE is analytic. We shall show that in such a case the use of full grid in general may perform as well as, if not better than, the sparse grid. Conditions under which the sparse grid method can outperform the full grid will be discussed.

欢迎大家参加!