## 数学与系统科学研究院 计算数学所学术报告

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## 报告题目:

Variable-separation Methods Based on Low Rank Representation for Parametric PDEs

邀请人: 曹礼群 研究员

报告时间: 2017年8月25日(周五)

上午 10:30-11:30

报告地点: 数学院南楼六层

602 教室

## **Abstract:**

In the talk, we present a variable-separation method for generic multivariate functions. The idea of the method is applied to obtain the solution in tensor product for parametric PDEs PPDEs ) . The presented variable-separation method has a few advantages over many widely used numerical methods for PPDEs. improve the efficiency for the method and treat high-dimensional PPDEs, we an improved least angle propose regression algorithm and a hierarchical sparse low rank tensor approximation method. The presented method can be used to solve a variety of PPDEs and parametric saddle point problems.

## 欢迎大家参加!