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：

An overview of canonical Euler splitting methods for nonlinear composite stiff evolution equations

邀请人： 唐贻发 研究员

报告时间：2016 年 6 月 16 日（周四）

下午 14:30-15:30

报告地点： 科技综合楼三层

311 报告厅

Abstract：

In previous papers, the author has constructed and studied canonical Euler splitting method (CES) and generalized canonical Euler splitting methods (GCES). Theoretical analysis and numerical experiments show that CES and GCES methods are universally applicable to general nonlinear composite stiff problems in evolution equations of various type, such as ODEs, PDEs, VFDEs, and so on, and can significantly improve the computing speed on the basis of computing quality assurance, whereas all the traditional operator splitting methods neither have such universal applicability, nor have such high computing speed which can be compared with that of CES and GCES methods.

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