

数学与系统科学研究院

计算数学所学术报告

报告人: **Assistant prof. Yang Yang**

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报告题目:

**Discontinuous Galerkin method for
pressureless Euler equations and
relativistic hydrodynamics**

邀请人: 季霞 副研究员

报告时间: **2015 年 7 月 21 日 (周二)**

下午 15:00-16:00

报告地点: 科技综合楼三层

301 小报告厅

Abstract:

In this talk, we apply discontinuous Galerkin methods for two model problems. For pressureless Euler equations, the exact solutions may contain delta singularities. We will apply special limiters to the scheme and prove its L1 stability. Moreover, we extend the same idea to relativistic hydrodynamics. Numerical examples will be given to demonstrate the stability of the scheme.

欢迎大家参加！