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## Boundary layer solution of the Boltzmann equation for specular boundary condition

**报告人:** 姜在红 教授 (浙江师范大学)

**报告时间:** 2021 年 9 月 4 日上午 10:00-11:00

**地点:** 线上线下同步(东学楼 0227) (腾讯会议 ID: 499 426 776)

**链接:** <https://meeting.tencent.com/dm/DJF49nVVETLE?rs=25>

**报告摘要:** We establish the existence of steady boundary layer solution of Boltzmann equation with specular boundary condition in  $L^2_{x,v} \cap L^\infty_{x,v}$  in half-space. The uniqueness, continuity and exponential decay of the solution are obtained, and such estimates are important to prove the Hilbert expansion of Boltzmann equation for half-space problem with specular boundary condition.

### 报告人简介:

姜在红, 浙江师范大学青年教授。主要从事流体力学及动理学等偏微分方程相关理论的研究。在 Archive for Rational Mechanics and Analysis, Journal of Differential Equations, Journal of Mathematical Fluid Mechanics, Journal of Nonlinear Science 等国际期刊上发表论文 30 余篇。曾获中国科学院优秀博士学位论文及全国优秀博士学位论文提名论文奖。

欢迎各位老师和同学参加!

西北大学数学学院  
2021 年 9 月 1 日