A half-space problem on the radiative and reactive gas

报告人：尹海燕 副教授（华侨大学）

报告时间：2022 年 5 月 6 日下午 14:30-15:30

腾讯会议 ID: 376 810 759

链接：https://meeting.tencent.com/dm/pQyqNtOJeOBY

报告摘要：In this talk, we will give three results about the study of the large time behavior of the radiative and reactive gas on the half line. The first result is that we show that the small-amplitude stationary solutions are time-asymptotically stable to the half-space problem for the one-dimensional radiative and reactive gas provided that the initial perturbation is sufficiently small in some weighted Sobolev spaces. The second result is that we prove that the nonlinear stability of the contact discontinuity of the radiative and reactive gas on the half line. The last result is that we obtain the asymptotic stability of superposition of boundary layer and rarefaction wave for the radiative and reactive gas on the half line. The proofs are given by the basic energy method.

报告人简介：

尹海燕，华侨大学数学科学学院副教授，公共数学部主任，泉州市高层次人才。2010 年本科和 2015 年博士毕业于华中师范大学。主要研究方向为非线性偏微分方程的理论及其应用，研究成果发表在《Math. Models Methods Appl. Sci.》、《SIAM J. Math. Anal.》、《J. Differential Equations》、《Indiana Univ. Math. J.》、《Sci. China Math.》、《Proc. Roy. Soc. Edinburgh Sect. A》、《Comm. Math. Sci.》等杂志。先后主持国家自然科学基金青年项目和面上项目。

欢迎各位老师和同学参加！

西北大学数学学院

2022 年 5 月 5 日