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中国科学院数学与系统科学研究院
Academy of Mathematics and Systems Science
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Academy of Mathematics and Systems Science, CAS
Colloquia & Seminars

Speaker: 罗涛 教授,香港城市大学

Inviter: 郝成春

Title: Resolvent problem for linearized compressible Navier-Stokes equations with free surface

Language: Chinese&English

Time & Venue: 2022.12.09 14:00-15:00 腾讯会议: 378-864-332, 密码: 1209

Abstract: In this talk, we will discuss the resolvent problem for the linearized one of the free surface problem of compressible, viscous and heat-conducting fluid, which is a problem in an infinite strip domain equipped with mixed boundary conditions. With the values prescribed by the given boundary conditions, we derive an explicit solution formula for this boundary value problem, and the unknown boundary values of solutions are also well specified. Then we establish the L_p , $1 < p < \infty$, estimates for the unique solutions to the resolvent problem. The talk is based on the joint work with Yongting Huang.

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