**青年学术论坛邀请报告**

时间：6月21日（周五）下午2:30-3:30

地点：数学楼402

报告人：唐童（副教授）

题目：On a singular limit for the stratified compressible Euler system

摘要：We consider a singular limit for the compressible Euler system in the low Mach number regime driven by a large external force. We show that any dissipative measure-valued solution approaches a solution of the lake equation in the asymptotic regime of low Mach and Froude numbers. The result holds for the ill-prepared initial data creating rapidly oscillating acoustic waves. We use dispersive estimates of Strichartz type to eliminate the effect of the acoustic waves in the asymptotic limit.