# 数学与系统科学研究院

# 计算数学所学术报告

报告人：　贺冬冬 助理教授

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报告题目：

**Threads and liquid jets: stability analysis and non-isothermal effect**

邀请人：许现民 副研究员

报告时间：**2021** 年 **7** 月 **30** 日（周三）

上午 **10:30-11:30**

报告地点：　科技综合楼

**311** 教室

**Abstract:**

**The motion of liquid jets and droplets are fundamental phenomenon in many real industrial applications, such as fiber spinning and inkjet printing. In this talk, I will first talk about the stretching a highly viscous thread with non-isothermal effect, the minimum stretching force to get pinch-off for the thread is determined, and the effect of non-isothermal is included. Secondly, the stability analysis for two-phase viscoelastic liquid fluids are discussed. It shows that the appearance of the outer fluid will provide more secondary droplets in the beads on a string structure. Finally, if time allows, I will also discuss a little about the motion of a droplet under non-isothermal condition and with surfactant effect.**

**欢迎大家参加！**