# 数学与系统科学研究院

# 计算数学所学术报告

**报告人：Dr. Yitzhak Fouxon**

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**报告题目：**

**Ginzburg-Landau functional, Onsager principle and phase field equations**

**邀请人：** 于海军 副研究员

**报告时间：2019 年 5 月 7 日（周二）**

**上午 10:30-12:30**

**报告地点：** 科技综合楼三层

**311 报告厅**

**Abstract:**

**We consider the problem of derivation of phase field equations that describe evolution of density of one of the phases in the two-phase system. We stress the role of the Ginzburg-Landau functional and provide its definition from the first principles examining the properties of locality and the local free energy density. We consider two different ways of constructing the phase field equations. Our emphasis is on the possibility of microscopic derivation of the equations and the role of the Onsager principle of symmetry of kinetic coefficients in constraining the possible form of these equations.**

欢迎大家参加！