# 偏微分方程及其应用中心

# 学术报告

**报告题目：** Some new results on evolutionary quasi-variational hemivariational inequalities

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**时 间：** 2024 年 09 月 27 日（星期五）上午 9:00-10:00

**地 点：** 数学院南楼 620

**摘 要：** This talk focuses on a class of evolutionary quasi-variational hemivariational inequalities, where both convex and nonconvex functionals are dependent on the unknown solution. Firstly, we establish the solvability and weak compactness of the solution set for these inequality problems. Subsequently, an inverse problem of parameter identification is addressed using a regularized optimization method. Moreover, we demonstrate the applicability of these results through an initial-boundary value problem of parabolic type with multivalued and nonmonotone boundary conditions as well as a state constraint.