# 数学与系统科学研究院

## 计算数学所学术报告

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**报告题目：**

**Review of Some Important Regularization Terms for solving Mathematical Image Problems**

**邀请人：** 洪佳林研究员

**报告时间：2018 年 3 月 23 日（周五）**

**上午 10:00--11:00**

**报告地点：数学院南楼N902 教室**

**报告摘要：**

**In this talk some efficient regularization term functions will be introduced. These functions are a part of general inverse problems, especially in mathematical models for image processing. The argument is around responding to the following**

**questions:**

**1- What is the mathematical image problem?**

**2- How a mathematical image problem can be formulated?**

**3- What is the analytical definition of TV (Total variation) as a regularization function?**

**4- What is the application of TV and TGV (Total generalized variation) in mathematical image problems?**

**5- How a regularization term can be defined for a special image processing problem?**

**6- How we can compare regularization function for applied image problems?**

**7- What are the promising future research subjects?**

**Keywords: Mathematical image problems, Total variation, Regularization term, Denoising, Upscaling.**

欢迎大家参加！