



复旦大学数学科学学院 数学综合报告会

报告题目：**Statistical Inverse Problems and applications to fluorescence microscopy**

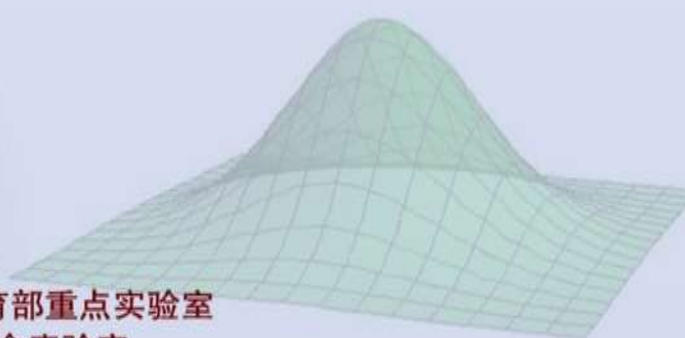
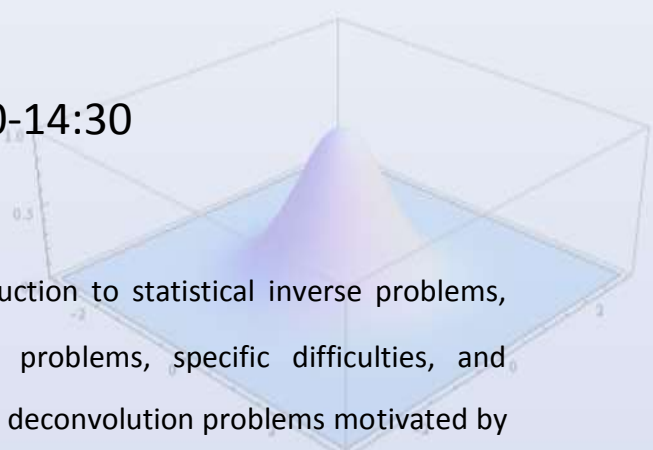
报告人：Frank Werner

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报告时间：2018-09-12 星期三 13:30-14:30

报告地点：光华东主楼 1801

摘要： In this talk we try to give a general introduction to statistical inverse problems, highlighting commonalities with deterministic inverse problems, specific difficulties, and important examples. Afterwards we especially focus to deconvolution problems motivated by fluorescence microscopy. Here we present an algorithm, which is able to simultaneously segment an image obtained by a modified fluorescence microscope and to count the number of markers inside the segments while controlling the uncertainty. Its performance is demonstrated in simulations and on experimental data.



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