



复旦大学数学科学学院 数学综合报告会

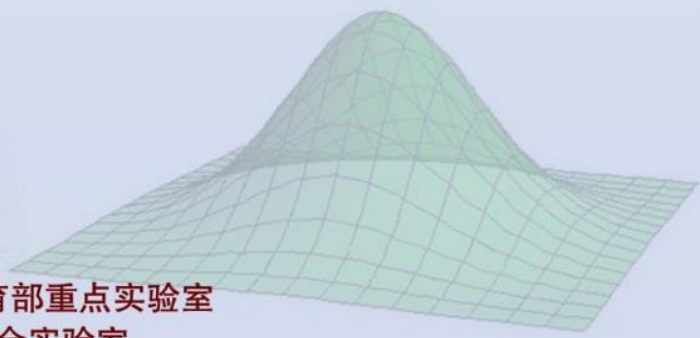
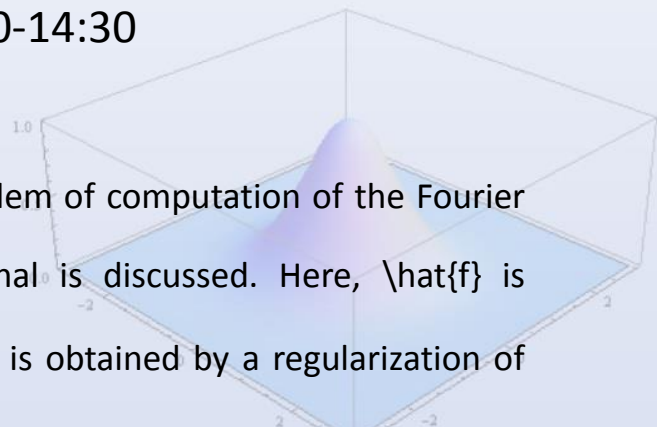
报告题目: **Computation of fourier transforms for noisy bandlimited signals**

报告人: Prof. Weidong Chen
(Park University)

报告时间: 2016-05-30 星期一 13:30-14:30

报告地点: 光华东主楼 1801

摘要: In this presentation, the ill-posed problem of computation of the Fourier transform \hat{f} for a noisy bandlimited signal is discussed. Here, \hat{f} is computed by a regularized Fourier series which is obtained by a regularization of the Fourier transformed sampling formula of Shannon. If the regularization parameter tends to zero, the uniform and L2-convergence of this method is proved. Numerical examples show the performance of this approach. And the results are extended to the two-dimensional case.



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