



复旦大学数学科学学院 数学综合报告会

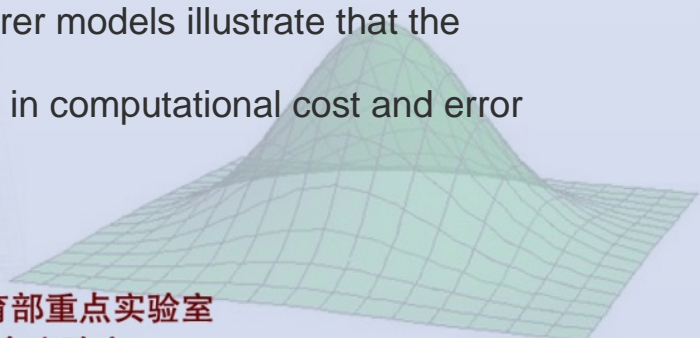
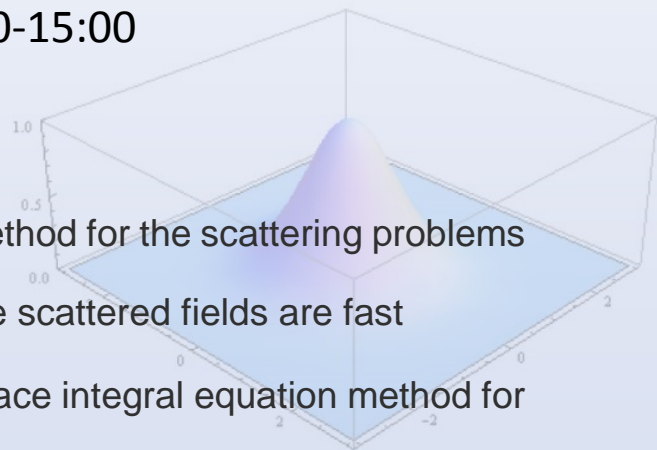
报告题目: The new methods for calculating the scattered fields from the nano-periodic structures and high frequency electrically large scatterers

报告人: 吴语茂 (复旦大学信息科学与工程学院)

报告时间: 2016-01-08 星期五 14:00-15:00

报告地点: 光华东主楼 1403

摘要: In this talk, the operator marching method for the scattering problems of nano-periodic structures is introduced. The scattered fields are fast calculated with high accuracy. Then, the surface integral equation method for analyzing the scattered electromagnetic fields on diffraction grating structures will be presented. Next, we propose the numerical steepest descent path method for solving the high frequency scattered fields. Numerical results on the engineering scatterer models illustrate that the proposed method is frequency independent in computational cost and error controllable in accuracy.



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