数学与系统科学研究院

计算数学所短期课程

报告人：Prof. Qiyu Sun

（ University of Central Florida ）

报告题目：

Wiener's lemma and its applications to Sampling

邀请人： 许志强 研究员

报告时间：

I.   2015 年 12 月 9 日（周三）上午 9:30-12:30

II.   2015 年 12 月 16 日（周三）上午 9:30-12:30

III. 2015 年 12 月 23 日（周三）上午 9:30-12:30

IV. 2015 年 12 月 30 日（周三）上午 9:30-12:30

报告地点： 科技综合楼三层

301 小报告厅

Abstract：

Classical Wiener's lemma states that a periodic function with an absolutely convergent Fourier series, which nowhere vanishes for real arguments, has an absolutely convergent Fourier series. Wiener's lemma has various extensions and applications. In this short courses, I will present some extension of Wiener's lemma to infinite matrices and integral operators, and its applications to sampling theory for signals with finite rate of innovation and sampling in spatially distributed systems.

This short course includes the following topics: 1. Classical Wiener's lemma and localization technique 2. Wiener's lemma for Grochenig-Schur class, 3. Wiener's lemma for Beurling class 4. Wiener's lemma for integral operators. 5. Sampling for signals with finite rate of innovation 6. Sampling for spatially distributed systems.

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