

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Tridiagonalization and J -Matrix Techniques

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Abstract

A rigorous treatment of the J matrix technique from theoretical physics will be presented. The idea is to start with a Hamiltonian then find a basis for L_2 or the underlying Hilbert space to make the matrix representation of the Hamiltonian a Jacobi (tridiagonal) matrix. Several examples, applications and generalizations will be mentioned.

Date: September 30, 2011 (Friday)

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome