THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research Department of Mathematics

COLLOQUIUM

Square Summable Power Series: From Beurling to De Branges and beyond

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Abstract

This talk shall survey an important area of harmonic analysis on the unit circle where the problems originate through the language of functional analysis and the solutions blend techniques of hard as well as soft analysis. The origin of this theme is the fundamental paper of Arne Beurling in 1949 describing the invariant subspaces of the shift operator on the Hardy-Hilbert space. It also covers the work of Helson-Lowdenslager and many others including some recent work of the author. The talk is fairly non-technical and requires a basic graduate background.

Date: August 29, 2017 (Tuesday)

Time: 11:00am - 12:00noon

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