

Liu Bie Ju Centre for Mathematical Sciences
City University of Hong Kong

Mathematical Analysis and its Applications Colloquium

Turning Point Theory and Asymptotics, Old and New Problems Involving Orthogonal Polynomials

by

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Date : 23 November, 2017 (Thursday)
Time : 4:30 pm to 5:30 pm
Venue : Room B6605
Blue Zone, Level 6, Academic 1 (AC1)
City University of Hong Kong

ABSTRACT:

We discuss some turning point theory techniques to derive asymptotics of q polynomials around their largest zeros, between the zeros (oscillatory rang), and beyond the largest zero. We survey the turning point theory for differential equations then introduce our new technique which only uses the functional equations satisfied by the polynomials and does not use refined. This is based on joint work with Chun-Kong Law.

Light refreshments will be provided before the colloquium from 4:00 pm to 4:30 pm. Please come and join us!

**** All interested are welcome ****



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