

THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON APPLIED MATHEMATICS

Christoffel transformations for (partial-)skeworthogonal polynomials and applications

by

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Abstract

In this talk, we consider the Christoffel transformations for skew-orthogonal polynomials and partial-skew-orthogonal polynomials. We demonstrate that the Christoffel transformations can act as spectral problems for discrete integrable hierarchies, and therefore we derive certain integrable hierarchies from these transformations. Some reductional cases are also considered. This is a joint work with Shi-Hao Li.

Date: 21 July 2023 (Friday)

Time : 3:30pm

Venue: Room 3472 (Lifts 25/26)

Zoom Meeting: https://hkust.zoom.us/j/91275640522 (Passcode: 246399)

All are Welcome!