

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Seminar

A Reconstruction Theorem for D -cap modules

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Abstract

The Riemann-Hilbert correspondence establishes a profound connection between certain differential equations on a given complex analytic manifold and its topology. This result had numerous interesting applications; for example, it was applied by Beilinson-Bernstein and Brylinski-Kashiwara in the 1980s to study the representation theory of semisimple algebraic groups. This talk explores ongoing research leveraging these concepts to investigate representation theory appearing in the p -adic local Langlands program, focusing on progress towards a p -adic analytic Riemann-Hilbert correspondence.

Date: January 20, 2025 (Monday)

Time: 10:30 - 11:30 am

Venue: Room 210, Run Run Shaw Building, HKU

All are welcome