



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Quantum Harish-Chandra bimodules at roots of unity and affine Hecke category

by

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Abstract

Classical Harish-Chandra bimodules are related to many other objects in representation theory such as infinite dimensional representations of complex groups viewed as real groups, category $\mathcal{O}$, character sheaves and such. The notion of Harish-Chandra bimodules for quantum groups was first introduced in works about topological quantum field theory of surfaces. I will mention some results about quantum Harish-Chandra bimodules at odd order roots of unity, connect them to affine Soergel bimodules and non-commutative Springer resolution.

Date : 29 July 2026 (Wednesday)

Time : 10:00a.m.-11:00a.m.

Zoom Meeting:

<https://hkust.zoom.us/j/94909097586?pwd=BgPyjpAdGLQFix1nRPsBOU27wN4sHW.1>

Meeting Chat Link: <https://hkust.zoom.us/jc/94909097586>

Meeting ID: 949 0909 7586

Passcode: 224431

All are Welcome!