THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Center of the quantum affine algebra at critical level

by

Prof. Naihuan JING
North Carolina State University

Abstract

I will discuss formulas of generators of the center of the completed quantum affine algebra in type A at the critical level. They are associated with primitive idempotents of the Hecke algebra and parameterized by Young diagrams. The Harish-Chandra images of the Sugawara operators are identified with the eigenvalues of the operators acting in the q-deformed Wakimoto modules. This recent joint work relies on suitable q-versions of the symmetric group and new ingredients of the Hecke algebra.

Date   : 22 May 2023 (Monday)

Time   : 3:00pm

Venue : Room 4472 (Lifts 25/26)

All are Welcome!