

THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Spherical Hecke Algebra Actions on Weil Representations

By

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Abstract

The Weil representation is an important representation of the Metaplectic group, a double cover of the symplectic group. To study this representation, one can embed the even part into a degenerate principal series representation, which contains a spherical vector. Then one can compute the action of the metaplectic Hecke algebra on this spherical vector by a formula analogous to Macdonald's formula on p-adic spherical functions. This method might be generalized to the case of loop groups.

Date: 8 May 2021 (Saturday)

Time: 3:00pm

Zoom Meeting: https://hkust.zoom.us/j/98697265817 (Passcode: 704828)

All are Welcome!