



The Hong Kong University of Science and Technology

Department of Mathematics

MPhil THESIS EXAMINATION

Some Calculations of Hecke Algebras of $Sp(6)$

By

Mr. Kam Hung TONG

ABSTRACT

In this thesis, we calculated certain Hecke algebra $H(G/P; \Omega)$ for $Sp(4)$ and $Sp(6)$ over a p-adic field of odd residual characteristic, with reference to Moy's paper on $GSp(4)$. The Hecke algebras allow transfers of Iwahori spherical representations of smaller reductive groups to representations of $Sp(6)$ which are Ω -spherical.

Date : 07 August 2020, Friday

Time : 10:00 a.m.

ZOOM Meeting : <https://hkust.zoom.us/j/94919474178>

Thesis Prof. Yongchang ZHU (Chairman)

Examination Prof. Allen MOY (Supervisor)

Committee : Prof. Eric P. MARBERG

(Open to all faculty and students)

The student's thesis is now being displayed on the reception counter in the General Administration Office (Room 3461).