

The Hong Kong University of Science and Technology

Department of Mathematics

MPhil THESIS EXAMINATION

Generalized Quadratic Residue Codes of Composite Length By

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<u>ABSTRACT</u>

In this thesis, we successfully generalized the codes of composite length which are reminiscent of QR codes into group algebra code and obtain bound of weight of generalized codes. We also prove the group algebra codes in specific group algebra can be presented by the product of group algebra codes.

Date	•	26 April 2019, Friday
Time	•	3:00 p.m.
Venue	•	Room 5562 (near lifts 27-28)
Thesis		Prof. Cunsheng DING (Chairman)
Examination		Prof. Maosheng XIONG (Supervisor)
Committee	•	Prof. Beifang CHEN

(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).