

THE UNIVERSITY



OF HONG KONG

Department of Mathematics

Qualifying Research Seminar

Poisson–Lie Groups and the QR Algorithm

Mr. Wu Hoi Leong

PhD Student, Department of Mathematics, HKU

(Supervisor: Professor Jiang-Hua LU)

April 27, 2026 (Monday) at 3:00pm

Rm 210, Run Run Shaw Building, HKU

Abstract

The QR algorithm for computing the eigenvalues of a symmetric/Hermitian matrix has been well-studied. In this seminar, a partial generalisation to complex semisimple Lie groups is discussed from the point of view of the theory of Poisson–Lie groups, where the algorithm is related to the dressing action on a compact semisimple group.

All are welcome