The Hong Kong University of Science and Technology

Department of Mathematics

<u>Seminar on Lie Theory</u>

On the classification of irreducible unitary representations of classical p-adic groups

by

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<u>Abstract</u>

The set of equivalence classes of irreducible unitary representations of a locally compact group G is called the unitary dual of G, and it is a starting point for harmonic analysis on G. We outline a strategy for approaching the classification of the unitary dual of a classical (e.g., symplectic or orthogonal) p-adic group. This strategy has been successful in the generalized rank three or less. We describe these results, and discuss possible further steps in higher ranks.

Date: *Thursday, 29 November 2018*

Time: *2:00p.m.-3:00p.m.*

Venue: *Room 4472, Academic Building HKUST (near Lifts 25 & 26)*

All are welcome!