The Hong Kong University of Science and Technology

Department of Mathematics

<u>Seminar on Lie Theory</u>

Basic constructions of irreducible unitary representations of classical p-adic groups

by

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<u>Abstract</u>

This will be an introductory talk into some of the basic constructions of irreducible representations and related topics. Particular attention will be paid to irreducible unitary representations. Parabolic induction plays a fundamental role and Jacquet modules is the main tool for analyzing parabolic induction. We shall consider the non-unitary dual as a step toward the unitary dual. Irreducible square integrable representations are extremely important unitary representations. They are also the main ingredient in the construction of the non-unitary dual. We discuss these topics and illustrate them on some low rank classical p-adic groups.

Date: *Thursday, 29 November 2018*

Time: *11:00a.m. – 12:00noon*

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

All are welcome!