

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Representation Theory Seminar

An approach to euclidean buildings

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Abstract

I will give an introduction to euclidean buildings for Chevalley groups. The main feature is a semi-original construction of the building as a subset of the building of general linear group, for every finite-dimensional representation of the Chevalley group. For general linear groups, the building consists of lattice chains, and our construction generalizes Moy-Prasad filtrations which appear naturally in the special case of the adjoint representation.

Date:	July 18, 2024 (Thursday)
Time:	15:00pm - 16:00pm
Venue:	Room 210, Run Run Shaw Building HKU

All are welcome