

#### THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

## **Department of Mathematics**

# **ALGEBRA AND GEOMETRY SEMINAR**

## A Lie-theoretic generalization of some Hilbert schemes

by

### **Prof. Oscar Kivinen**

**Aalto University** 

#### **Abstract**

I will introduce several varieties attached to a complex reductive group, generalizing for example  $\text{Hilb}^n$  ( $\mathbb{C}^2$ ) and Haiman's isospectral Hilbert scheme, which pertain to the  $GL_n$ -case. I will then explain what is currently known about these varieties (including some low-rank examples) and what else one would like to know about them.

Date: 30 October 2024 (Wednesday)

Time : 4:00pm - 5:30pm

Venue: Room 4475 (Lifts 25/26)

All are Welcome!