THE UNIVERSITY  OF HONG KONG

Institute of Mathematical Research
Department of Mathematics

Algebraic Geometry and Representation Theory Seminar

Kostant bundle and Cartan 3-form

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Abstract

The Kostant section defines a canonical G-bundle equipped with a universal Higgs field over the Chevalley base. We investigate the structure of this bundle and describe it using explicit invariant tensors. As a by-product, we give an explicit root-theoretic description of a semisimple Lie algebra from the root system, and in particular, an explicit formula for the Lie bracket.

Date:	November 18, 2026 (Wednesday)
Time:	11:00 am – 12:00 noon
Venue:	Room 210, Run Run Shaw Building, HKU

All are welcome