



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

on Wednesday, Sep 23, 2020
at 16:30

ZOOM: [HTTPS://WEIZMANN.ZOOM.US/J/98304397425](https://weizmann.zoom.us/j/98304397425)

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Padeborn

On the little Weyl group of a real spherical space (joint with Eitan Sayag)

Abstract:

Let G be a connected reductive group defined over a field k of characteristic 0. Recently Knop and Krämer showed that one can attach a Weyl group to any algebraic homogeneous G -variety defined over k . This Weyl group is called the little Weyl group. In this talk I will discuss a geometric construction of the little Weyl group for a real spherical space G/H . Our technique is based on a fine analysis of limits of conjugates of the subalgebra $\text{Lie}(H)$ along one-parameter subgroups in the Grassmannian of subspaces of $\text{Lie}(G)$.

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