
THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Algebraic Geometry and Representation Theory Seminar

on Wednesday, Nov 11, 2020 at 16:30

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

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The decomposition of discrete series

Abstract:

B. Gross and D. Prasad first formulated their famous conjectures about the restriction of representations of discrete series representations in the original paper Discrete series of an orthogonal group $G = \mathrm{SO}_n$ when restricted to an orthogonal subgroup $G' = \mathrm{SO}_{n-1}$ published in 1992. In this lecture we consider representations π in the discrete spectrum of $L_2(G/H)$ where $G = \mathrm{SO}(p, q)$ and $H = G_\theta$ for an involution θ and their restriction to a subgroup $G' = \mathrm{SO}(p-1, q)$. I formulate similar conjectures relating the restriction to interlacing patterns and in the last part I discuss the evidence supporting these conjectures.

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