



THE WEIZMANN INSTITUTE OF SCIENCE

FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

on Wednesday, Jun 24, 2020
at 16:30

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

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Restriction for general linear groups: the local non-tempered Gan-Gross-Prasad
conjecture

Abstract:

Recently, Gan-Gross-Prasad formulated new restriction problems for the non-tempered representations of classical groups. In this talk, I shall explain a proof of a conjecture on general linear groups over non-Archimedean fields. The main ingredients of the proof include a use of filtration on parabolically induced representations when restricted to the mirabolic subgroups, and realizing the product with a Speh representation as a functor. The proof also uses a result of Lapid- Minguéz on the irreducibility of a product of representations. If time permits, we shall also discuss generalizations to Bessel and Fourier-Jacobi models and towards Ext-branching laws.

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