THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

on Wednesday, Jul 29, 2020
at 16:30

ZOOM: HTTPS://WEIZMANN.ZOOM.US/J/98304397425

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On the distinction of Harish-Chandra modules and its Ext-analogues.

Abstract:

One core problem in relative harmonic analysis is to study the space of H-invariant linear functionals on an admissible representation, where H is a spherical subgroup of a reductive group G over a local field. In this talk, I will focus on the Archimedean case in the setting of Harish-Chandra modules. I will review the interpretation of these Hom spaces in terms of certain regular holonomic D-modules on G/H (arXiv:1905.08135), under mild conditions on H. Then I will try to sketch a possible extension of this strategy to the Ext-analogues and the Euler-Poincaré numbers. This is a work in progress.

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