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

on Wednesday, Feb 02, 2022 at 17:00

Seminar in zoom only: <https://weizmann.zoom.us/j/98304397425>
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Number of irreducible representations in the cuspidal automorphic spectrum

Abstract:

Let G be a reductive group defined and deployed over a global function field. We are interested in the sum of multiplicities of irreducible representations containing a regular depth zero representation of $G(\mathcal{O})$, where \mathcal{O} is the ring of integral adeles, in the automorphic cuspidal spectrum. The sum is given in terms of the number of F_q -points of Hitchin moduli spaces of groups associated to G . When $G=GL(n)$, it implies some cases of a conjecture of Deligne by Langlands correspondence. In this talk, I will mainly focus on the case of $GL(n)$.

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