THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room 155, Ziskind Building
on Tuesday, Mar 26, 2019
at 11:15

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The Drinfeld-Gaitsgory operator on automorphic functions

Abstract:

Let \( F \) be a function field and \( G \) a connected split reductive group over \( F \). We define a "strange" operator between different spaces of automorphic functions on \( G(A)/G(F) \), and show that this operator is natural from the viewpoint of the geometric Langlands program via the functions-sheaves dictionary. We discuss how to define this operator over a number field by relating it to pseudo-Eisenstein series and inversion of the standard intertwining operator. This operator is also connected to Deligne-Lusztig duality and cohomological duality of representations over a local field.