



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.