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

Room 261 ,Ziskind Building
on Wednesday, Jan 27, 2016at 11:15

Max GurevichWeizmann Institute of Science

Integrability of p-adic matrix coefficients

Abstract:

Many works in relative p-adic harmonic analysis aim to describe which representations of a reductive group G can be embedded inside the space of smooth functions on a homogeneous space G/H . A related question is whether such an embedding can be realized in a canonical form such as an H -integral over a matrix coefficient. In a joint work with Omer Offen we treated the symmetric case, i.e., when H is the fixed point group of an involution. As part of the answer we provide a precise criterion for such integrability, which reduces in the group case to Casselman's known square-integrability criterion.