המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ההרצאה

of case the - groups p-adic and finite between In permutations

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תקציר: Using the Bruhat decomposition, a general linear group over a p-
adic field may be thought of as a "quantum" affine version of a finite group of
permutations. I would like to discuss some analogies and explore the implications
of this point view on the spectral properties of the two groups. For one, restriction
of an irreducible smooth representation to its finite counterpart gives the correct
notion of the wavefront set - an invariant of arithmetic signfiicance which is
often approached using microlocal analysis. From another perspective, the class
of cyclotomic Hecke algebras is a natural interpolation between the finite and
p-adic groups. I will show how the class of RSK representations (developed with
Erez Lapid) serves as a bridge between the Langlands classfiication for the p-adic
group and the classical Specht construction of the finite domain.