

Department of Mathematics, BGU

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# Automorphic Forms

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*On Thursday, November ,19 2015*

*At 14:00 – 16:00*

*In Math 101-*

Dr. Shiv Patel

will talk about

## **Construction of Covering groups**

Abstract: Following McNamara we describe  $n$ -fold covers of a split reductive group. We discuss splitting properties of these covers when restricted to unipotent and maximal compact subgroups. Since inverse image of a maximal torus is a Heisenberg group, we parametrise its (genuine) representations by their (genuine) central characters. Then we define principal series representation and study spherical vectors in these representation. Reference:- Peter McNamara; Principal Series Representations of Metaplectic Groups Over Local Fields. Multiple Dirichlet Series, L-functions and Automorphic Forms, Birkhauser Progress in Math. 300 (2012) .327–299