

SPEAKER: Dani Szpruch (Open University of Israel)

TITLE: Whittaker dimensions for reducible unitary principal series representations of coverings of $SL(2, F)$

ABSTRACT: Let G be a quasi-split reductive group defined over a p -adic field F , let M be a Levi subgroup and let π be a generic smooth irreducible representation of M . Define $I(\pi)$ to be the corresponding parabolic induction on G . The well known uniqueness of Whittaker model combined with Rodier heredity imply that up to a scalar, $I(\pi)$ has one Whittaker functional. In particular, if $I(\pi)$ is reducible then exactly one of its irreducible constituents is generic. This situation changes dramatically when we move to covering groups: since the uniqueness of Whittaker model fails we may have more than one generic irreducible constituent. In this talk we shall discuss the case of genuine reducible unitary principal series representations of coverings of $SL(2, F)$ and compute the Whittaker dimensions for the two irreducible sub-representations.