

## **Abstract:**

We use the Kuznecov transform and inversion formula to give a Whittaker Plancherel inversion formula on  $SL(2, R)$ . This formula gives a Whittaker-Fourier coefficient of a compactly supported smooth function on  $SL(2, R)$  in terms of Bessel coefficients of this function which are associated to Bessel distributions on  $SL(2, R)$ . This is joint work with Z. Mao and N. Wallach.