1060-11-139   **James W. Cogdell*** (`cogdell@math.ohio-state.edu`), Department of Mathematics, 231 West 18th Avenue, Columbus, OH 43210. *On Certain Bessel Functions.*

In the proofs of functoriality using the converse theorem, the lack of a "Local Langlands Conjecture" is finessed via the stability of the local gamma factor under highly ramified twists. This stability result in turn relies on understanding certain Bessel functions attached to generic representations and their asymptotics. In this talk I would first like to explain these Bessel functions and what we know and expect about their asymptotics. Then I will explain a general framework for defining and analyzing these types of functions. This is joint work with F. Shahidi. (Received March 28, 2010)