1001-22-282 **Jeffrey L Hakim*** (`jhakim@american.edu`), Department of Mathematics & Statistics, American University, 4400 Massachusetts Avenue NW, Washington, DC 20016. *Equivalence of Data Parametrizing Tame Supercuspidal Representations.*

This talk involves joint work with Fiona Murnaghan. Though our research centers on the interplay between symmetric spaces and Jiu-Kang Yu's tame supercuspidal representations, I will only discuss those problems which make no explicit reference to symmetric spaces in their statement. Yu's construction associates a tame supercuspidal representation of a group G to an object called a cuspidal G-datum. The primary focus of this talk is the problem of determining when two cuspidal G-data determine equivalent tame supercuspidal representations. Our approach to solving this problem makes heavy use of symmetric space techniques. We also discuss basic operations with cuspidal G-data, such as a product operation and a contragredient operation. (Received August 29, 2004)