

1014-11-1034      **Brooke G. Feigon\*** ([bfeigon@math.ucla.edu](mailto:bfeigon@math.ucla.edu)), UCLA Mathematics Department, Box 951555,  
Los Angeles, CA 90095-1555. *A relative trace formula in the local setting*. Preliminary report.

Classical automorphic forms can be embedded into a certain space of automorphic functions on groups over the adèles (a restricted direct product of local fields). “Base change” is a way of studying automorphic forms by relating the automorphic representations on different groups. Jacquet proved a global Relative Trace Formula that has applications to base change. In my talk, I will explain this picture and then discuss recent work of mine using techniques of Arthur to develop the Relative Trace Formula in the local field setting. (Received September 26, 2005)