

**Meeting:** 1004, Bowling Green, Kentucky, SS 9A, Special Session on L-Functions

1004-22-175            **Anthony C. Kable\***, Department of Mathematics, Oklahoma State University, Stillwater, OK  
74078. *Local Asai L-Functions and Applications.*

Let  $E/F$  be a separable quadratic extension of local fields and  $\pi$  an admissible representation of  $GL(n, E)$ . There are links between representation-theoretic properties of  $\pi$  and analytic properties of its Asai L-function(s). A number of results addressing conjectures of Jacquet, Flicker and Rallis, and D. Prasad have recently been obtained by exploiting these links. The results, the methods used to obtain them, and some open problems will be surveyed. (Received January 24, 2005)