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Yiannis Sakellaridis* (sakellar@rutgers.edu), 101 Warren Street, Smith Hall 216, Newark, NJ 07102. *Unramified functions on a p -adic spherical variety.*

The Hecke module of unramified functions on a p -adic spherical variety has a very interesting combinatorial structure, which can be expressed in terms of a local L-function (depending on the variety). I will describe this structure, and some applications to automorphic forms and number theory. (Received June 25, 2011)