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Mark Reeder* (reederma@bc.edu), Boston College, Dept. of Mathematics, Chestnut Hill, MA 02467. *Supercuspidal L -packets and co-invariants in the weight lattice.*

We report on some recent examples of an explicit Langlands correspondence relating Lubin-Tate extensions of a p -adic field k to supercuspidal representations of unramified k -groups and their pure inner forms. This leads to the elementary but interesting problem of studying co-invariants in the weight lattice under an elliptic element w in a Weyl group W , and the orbits in such co-invariants under the centralizer of w in W . (Received February 18, 2006)