Jeffrey D. Achter* (achter@math.colostate.edu), Department of Mathematics, Colorado State University, Fort Collins, CO 80523-1874, and Clifton Cunningham. *L-packets and abelian varieties*. Preliminary report.

Let E/\mathbb{Q} be an elliptic curve; it is well known that $a_p(E) = 0$ if and only if the reduction E_p is supersingular. In this talk, I will explain how to interpret the condition " $a_p(E) = 0$ " in terms of the automorphic representation of GL_2 attached to E, and discuss how this situation generalizes to abelian varieties of higher dimension. (Received December 12, 2011)