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Robert Pollack* (rpollack@math.bu.edu), 111 Cunningham St., Boston, MA 02215. *On the mu-part of the anticyclotomic main conjecture for elliptic curves.*

Let K/Q be a quadratic imaginary extension and let E/Q be an elliptic curve. In this talk, we give an explicit formula for the mu-invariant of the Selmer group of E over the anticyclotomic extension of K . Moreover, by comparing this formula with a formula of Vatsal for the mu-invariant of the anticyclotomic p-adic L-function of E , we see that the mu-part of the main conjecture holds in many instances. This project is joint with Tom Weston. (Received February 19, 2005)