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Vanishing and non-vanishing critical values of Elliptic L-functions. Preliminary report.

I will discuss some results on the vanishing and non-vanishing of critical values of L-functions of elliptic curves and their derivatives, both experimental and theoretical. In particular, an example of a computational “elliptic Stark point” in a cyclic quintic extension of the rationals will be described. (Received February 04, 2008)