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Cornelia A. Van Cott* (cvancott@usfca.edu) and **Charles Livingston**. *Knot signatures, epsilon, and the four-genus of knots*. Preliminary report.

Both the Levine-Tristram signature function and the recently defined Ozsvath-Stipsicz-Szabo epsilon function provide bounds on the four-genus of a knot. We will explore the behavior of these bounds, focusing on their behavior with respect to the connected sums of torus knots. (Received January 15, 2015)