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Charles Livingston* (livingst@indiana.edu), Mathematics Department, Indiana University, Bloomington, IN 47405, and **Cornelia Van Cott**. *Knot signatures, epsilon, and the four-genus of knots*. Preliminary report.

The Levine-Tristram signature function and the recently defined Ozsvath-Stipsicz-Szabo epsilon function yield homomorphisms from the knot concordance group to the space of functions on $[0,1]$. Both provide bounds on the four-genus of a knot. In this talk I will review the definitions of these functions. Connected sums of torus knots will be used to illustrate their strengths and complementary nature in determining the four-genus of knots. (Received January 15, 2015)