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Luis Finotti* (finotti@math.utk.edu), Department of Mathematics, UTK, 1403 Circle Drive, Knoxville, TN 37996. *Efficient computations with Witt vectors.*

Some codes can be constructed using lifting of curves over finite fields to curves over the rings of Witt vectors. But, except in cases when we have a canonical isomorphism of these rings onto simpler rings, computations with Witt vector can be quite demanding. We will discuss how to obtain significant improvements with general computations with Witt vectors, and, time permitting, show some applications. (Received July 22, 2011)