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Travis Scholl* (schollt@uci.edu), 340 Rowland Hall (Bldg.# 400), University of California, Irvine, Irvine, CA 92697-3875. *Isolated Curves and Cryptography*.

We call an elliptic curve over a finite field *super-isolated* if it admits no (rational) isogenies to other curves. In this talk, we will discuss the cryptographic motivations for super-isolated curves and give several examples. This concept can also be applied to general abelian varieties. Our main result is that for any $g \geq 3$, there are finitely many super-isolated simple ordinary abelian varieties of dimension g . (Received January 09, 2019)