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Travis Scholl* (traviswscholl@gmail.com). *Super-Isolated Abelian Varieties.*

We call an abelian variety over a finite field *super-isolated* if its (rational) isogeny class contains a single isomorphism class. In this talk, we will search for super-isolated abelian varieties over finite fields using Honda-Tate theory. This reduces to looking for algebraic integers with certain properties. Counting such varieties relates to classical conjectures on prime values of polynomials. (Received September 16, 2019)