1125-94-389 **Joseph H Silverman*** (jhs@math.brown.edu), Mathematics Department - Box 1917, Brown University, Providence, RI 02912. *Cryptographic constructions via secret finite field isomorphisms.* Preliminary report.

We describe how to use secret finite field isomorphisms to construct cryptographic primitives such as partially homomorphic encryption schemes and digital signature schemes. This is joint work with Jeff Hoffstein, Jill Pipher, and others. (Received August 30, 2016)