Rachel Davis* (rachel.davis@wisc.edu), Huynh, Keaton and Rouse. Effective Chebotarev for a Density from Jones and Rouse. Preliminary report.

In 2010, Jones and Rouse gave, for each prime \( \ell \) and each nice rational point on a good elliptic curve defined over a number field, a formula for the density of primes \( p \) such that the rational point when reduced mod \( p \) has order coprime to \( \ell \). For example, when \( \ell = 2 \), their formula gives a density of 11/21, not 1/2. We give an explicit bound for the rate of convergence of their limit. This is joint work with Huynh, Keaton, and Rouse. (Received July 11, 2019)