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Byungchul Cha* (cha@hendrix.edu), 1600 Washington Ave., Conway, AR 72032. *Chebyshev's Bias in Function Fields*. Preliminary report.

Rubinstein and Sarnak in 1994 were able to justify that, for a fixed integer $m > 2$ that has a primitive root, the primes that are quadratic nonresidues modulo m predominate the primes that are quadratic residues. We study this question in a function field setting. Our results exhibit a strong analogy with the work of Rubinstein and Sarnak mentioned above. (Received August 30, 2006)