## 1116-VN-2053 Jonathan Douglas Chan\* (jdchan@princeton.edu), Soonho Kwon and Michael Seaman. On the distribution of discriminants over a finite field.

For a prime power q, we show that the discriminants of monic polynomials in  $\mathbb{F}_q[x]$  of a fixed degree m are equally distributed if gcd(q-1, m(m-1)) = 2 when q is odd and gcd(q-1, m(m-1)) = 1 if q is even. A theorem in the converse direction is proved when q-1 is squarefree. (Received September 21, 2015)