

Chebyshev's bias for products of irreducible polynomials

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Following the work of B. Cha, we adapt new results related to Chebyshev bias questions in the setting of polynomial rings. For any finite field F , and for any positive integer k , we give an asymptotic for the count of products of k irreducible polynomials with coefficients in F in fixed congruence classes. We obtain unconditional results for the existence of the associated bias. We put the emphasis on the difference from the original setting due to unexpected zeros.

This is a joint work with X. Meng.