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Primes with missing digits over $\mathbb{F}_q[T]$ in arbitrary bases

We study monic irreducible polynomials over $\mathbb{F}_q[T]$ whose non-leading digits, with respect to an arbitrary polynomial base $b(T)$, avoid a prescribed set of forbidden digits. We obtain an asymptotic formula for the number of such irreducible polynomials under conditions given in terms of Fourier parameters of the allowed digit set. The main term contains a singular series measuring the relative density of units among the allowed digits, while the error term depends on both pointwise and averaged Fourier estimates. We obtain a general criterion depending only on the cardinality of the forbidden set, as well as stronger results for restrictions in structured sets. This is joint work with Juan Arévalo.