

Sequences of consecutive smooth polynomials
over a finite field

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Abstract

Several authors have established analogues for polynomials over finite fields of results for integers. Balog and Wooley have shown that, for every positive number ε , there exist infinitely many strings of consecutive integers of size approximately n , with all integers being n^ε -smooth. The length of the strings tends to infinity with speed $\log \log \log \log n$. In this talk I will present a version for polynomial. This is a joint work with Daniel Panario.