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Katherine Alexander Anders* (kaanders@illinois.edu), Department of Mathematics, 1409
W. Green St., Urbana, IL 61801. *An interesting family of polynomials in $\mathbb{Z}_2[x]$* . Preliminary report.

I describe a sequence of polynomials $p_n(x) \in \mathbb{Z}_2[x]$ such that the order of $p_n(x) = d_n$ and $p_n(x)q_n(x) = 1 + x^{d_n}$ with the property that the proportion of 1's among the coefficients of $q_n(x)$ goes to 1 as $n \rightarrow \infty$. (Received July 10, 2012)