

1052-11-70

Pradipto Banerjee (banerjep@mailbox.sc.edu) and **Michael Filaseta***
(filaseta@mailbox.sc.edu). *Missed it by that much.*

A conjecture of Pál Turán is that every polynomial with integer coefficients is near an irreducible polynomial with integer coefficients. More precisely, he conjectured that there is an absolute constant C such that if $f(x) = \sum_{j=0}^n a_j x^j \in \mathbb{Z}[x]$, then there is an irreducible polynomial $g(x) = \sum_{j=0}^n b_j x^j \in \mathbb{Z}[x]$ such that $\sum_{j=0}^n |a_j - b_j| \leq C$. In this talk, I will present some history behind this interesting conjecture and some recent progress on the subject. (Received August 18, 2009)