1047-11-350 Ernie Croot*, Georgia Institute of Technology, School of Math, 103 Skiles, Atlanta, GA 30332. Sums and Products in C $C x]$.
Suppose that $A$ is a set of monic polynomials in $\mathbb{C}[x]$. A polynomial analogue of a conjecture of Erdos and Szemeredi says that either the set of sums $f(x)+g(x)$ or set of products $f(x) g(x)$ of polynomials chosen from $A$, must be at least $|A|^{2-o(1)}$, where the $o(1)$ tends to 0 as $|A|$ tends to infinity. In this talk we will present some results that are a good step towards proving this conjecture. This is joint with Derrick Hart. (Received February 02, 2009)

