

Let  $P(X)$  be a monic, quartic polynomial with integer coefficients. We suppose that  $P(X)$  is irreducible and has a cyclic or dihedral Galois group. Then there exists  $c_P > 0$  such that the largest prime factor of  $P(n)$  is  $> n^{1+c_P}$  for a positive proportion of integers  $n$ . This is a joint work with James Maynard.