

Almost primes on orbits

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Abstract. Firstly, I will introduce a recent conjecture of Peter Sarnak on the distribution of primes on orbits, which may be viewed as a non-abelian extension of Dirichlet's theorem, the Hardy-Littlewood prime k -tuple conjecture, Schinzel's hypothesis, etc. After that, I will report a joint result with Sarnak concerning almost prime solutions to ternary quadratic equations.