Anatomy of a Number
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Integers without divisors from a fixed arithmetic progression

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Abstract

Let a be an integer and q a prime number. My talk will focus on joint work with John Friedlander and Florian Luca in which we derive an asymptotic formula for the number of positive integers $n \le x$ with the property that no divisor $d \ne 1$ of n lies in the arithmetic progression a modulo q.