Algebra and Number Theory Seminar

Variations on a theme of Shinzel and Wójcik

Matthew Just Emory University

Abstract: Let α and β be rational numbers not equal to 0 or ± 1 . How does the order of α (mod p) compare to the order of β (mod p) as p varies? A result of Shinzel and Wójcik states that there are infinitely many primes p for which the order of α (mod p) is equal to the order of β (mod p). In this talk, we discuss the problem of determining whether there are infinitely many primes p for which the order that there are infinitely many primes p for which the order of β (mod p). This is joint work with Paul Pollack.

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