
NAIK SUNIL, Queen's University

On some problems in Matsuda monoids

Let F be a field and M be a commutative, torsion-free, cancellative monoid. Let $F[X; M]$ denote the ring of all polynomials with coefficients in F and exponents in M . We say that M is a Matsuda monoid if for every indivisible element α in M , the polynomial $X^\alpha - 1$ is irreducible in $F[X; M]$ for any field F . In this talk, we will discuss recent work on Matsuda monoids that leads to questions in analytic number theory.