

1014-11-560

Kevin G. Hare* (kghare@math.uwaterloo.ca), Kevin G. Hare, Department of Pure Mathematics, University of Waterloo, Waterloo, Ontario N2G 5C1, Canada. *Univogue Beta Expansions of Pisot numbers.*

This talk will discuss recent work of Allouche, Frougny and Hare on the beta expansions of Pisot numbers. Recall a Pisot number is a real algebraic integer $q > 1$, such that all conjugates of q have modulus strictly less than 1. A beta expansion of a number x is an infinite sum $x = \sum_{i=1}^{\infty} \frac{a_i}{q^i}$ where the a_i are integers strictly less than q . A number q is said to be univogue if there is a unique beta expansion of 1. We will discuss some combinatorial properties of univogue Pisot numbers, and their relation to regular Pisot numbers. (Received September 20, 2005)