

Uniform Boundedness for Preperiodic Points of Unicritical Polynomials

by

CHATCHAWAN PANRAKSA
Mahidol University International College
chatchawan.pan@mahidol.edu

Arithmetic dynamics is a combination of dynamical systems and number theory. In this talk, we discuss the rational preperiodic points of Unicritical Polynomials. Under the assumption of the *abc*-conjecture, we prove that a unicritical polynomial $x^d + c$ has no rational periodic point of exact period greater than 1 for sufficiently large integer d and $c \neq -1$.