THE TRIVIAL NOTIONS SEMINAR

Jit Wu Yap

will speak on

Equidistribution and Arithmetic Dynamics

ABSTRACT

Given a rational function φ, we say that x is preperiodic for φ if $\varphi^m(x) = \varphi^n(x)$ for some natural numbers $m \neq n$. We have the following classical question: Is the set of complex numbers c such that 0 and 1 are both preperiodic for $z^2 + c$ finite?

The answer is positive, as asserted by a theorem of Baker and Demarco. Following them, we will introduce the notion of equidistribution and sketch how this solves our question.

Thursday, September 30, 2021

At 11:30 am

Science Center, Room 232