Séminaire de théorie des nombres

Le 11 juin 2018 à 14h (PRG)

Arithmetic dynamics of quadratic polynomials

Exposé de Chatchawan Panraksa
(Mahidol University, Bangkok)

Résumé : Arithmetic dynamics is a combination of dynamical systems and number theory. In this talk, we discuss the periodic points of quadratic polynomials. We also discuss Morton-Silverman uniform boundedness conjecture. It states that the number of periodic points of any rational function with rational coefficients is bounded by a constant depending only on the degree of the function. The conjecture is still unsolved even for quadratic polynomials.