

IMIA Operator Algebra and Noncommutative Geometry Seminar
University of Wollongong

Title: Substitutive dynamics

Speaker: Valérie Berthé (Paris 7, France)

Time and Date: 3:30pm Thursday, 4 December 2014

Location: Room 39C.meeting room

Abstract: A substitution is a rule that allows us to replace (after inflation) prototiles by finite unions of prototiles, thus producing larger and larger patches, and then tilings. They also can be defined on words: a letter is replaced by words. We review in this lecture various aspects of substitutive dynamical systems, by focusing on the Pisot substitution conjecture and on multidimensional sofic shifts.