



Centro de Matemática
Universidade do Porto

Dynamical Systems Seminar

Date. May 3, 14h30

Place. Room M031

Speaker. Cristina Serpa¹ (University of Lisbon & CMAF)

Title. Dynamics and combinatorics of piecewise expanding interval maps

Abstract. There is a topological conjugation between piecewise increasing linear and piecewise expanding interval maps. Properties of such maps can be studied through the piecewise linear case. This case has connections with number theory, e.g. the Gauss-Gegenbauer generalization of Fermat's little theorem, and with combinatorics on words, through bijections between the set of periodic orbits (periodic points) and the set of necklaces (words).

Remark. Coffee with the speaker is served after the talk (15h30 - 16h00)

¹Cristina Serpa is a Ph.D. Student under the supervision of Prof. Jorge Buescu.