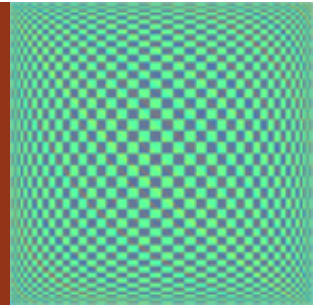




Centro de Matemática
Universidade do Porto



Seminar on Semigroups, Automata and Languages

The overlap gap between left-infinite and right-infinite words

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Abstract: In this talk I will present ultimate periodicity properties related to overlaps between the suffixes of a left-infinite word λ and the prefixes of a right-infinite word ρ . I will talk about a result that states that the set of minimum lengths of words x and x' such that $x\lambda_n = \rho_n x'$ or $\lambda_n x = x'\rho_n$ is finite, where n runs over positive integers and λ_n and ρ_n are respectively the suffix of λ and the prefix of ρ of length n , if and only if λ and ρ are ultimately periodic words of the form $\lambda = u^{-\infty}v$ and $\rho = wu^{\infty}$ for some finite words u , v and w . This is a joint work with José Carlos Costa (Universidade do Minho) and M. Lurdes Teixeira (Universidade do Minho).

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Place: Online Zoom meeting



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