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Title: Generalizations of Sturmian words

Abstract: Sturmian words - the infinite aperiodic words with the lowest possible complexity - have been studied extensively since their discovery in the 40s and many equivalent definitions have been found out since. In this talk, we summarize generalizations of combinatorial definitions to larger alphabets and reveal relations between them. Two generalizations of the characterizations of Sturmian words based on palindromes proposed in 1999 by Droubay and Pirillo are in particular in the center of our interest. We present new results concerning such generalizations.