Words and Automata Research Group

# Seminar Announcement

## ω-Lyndon words: A generalization of Lyndon Factorizations

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Friday 21st February 2020, 11 a.m.
Room 7, Via Archirafi 34, 90123 Palermo

In recent papers, Dolce, Restivo and Reutenauer have proposed a generalization of Lyndon words in which the lexicographic order is replaced by a lexicographic-like order where the comparison between two words depend on the position where those words differ for the first time, allowing to have, for example, ab < aa < bb. They achieved to prove that, like in the usual case, every finite word can be expressed uniquely as a non-increasing product of those new Lyndon words. They asked whether this result could be extended to infinite words. In this talk I will show that this is possible, even in a generalized setting. This work is joint with Luca Zamboni.

For further information:

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*All interested people, in particular students, are invited to participate*