Words and Automata Research Group

UNIVERSITÀ DEGLI STUDI DI PALERMO

Seminar Announcement

Stern Sequence, Fraction Trees and Christoffel Words

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Thursday 27th November 2014, 3 p.m.
Room 7, Via Archirafi 34, 90123 Palermo

Using the Christoffel tree by Jean Berstel and Aldo de Luca, we discuss the existing link between the Stern-Brocot and Raney trees of fractions, the Stern sequence, and Christoffel words. In particular, we obtain noncommutative versions of known results by Calkin and Wilf showing that terms of the Stern sequence count "hyperbinary" expansions of integers and "alternating bit sets" in their binary expansions.

For further information:

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