



SEMINÁRIO

SISTEMAS DINÂMICOS

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Some dynamics on binary trees

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ABSTRACT:

Binary trees are the Cayley graphs of the free monoid with two generators a and b . Considering configurations where each vertex has an element of some finite alphabet it is possible to define very naturally the action of a and b , that in some sense are similar to the well-known shift.

In the talk I would like to explore some properties of two particular cases: First, the entropy for subshifts where the allowed transitions are defined by two matrices A and B , one for each generator (this is joint with Alex Becker and Andressa Cordeiro).

Second, the definition of a possible substitution dynamics on the trees where a non-periodic pattern appears (this is joint with Renaud Leplaideur).

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