ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

Links between lattice paths and automata theory

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Chaired by Clemens Heuberger | Department of Mathematics

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ABSTRACT

Given a set $\mathscr{S} \subseteq \{1\} \times \mathbb{Z}$, a directed lattice path with stepset $\mathscr{S}$ is a finite sequence whose elements are in $\mathscr{S}$. Visually, the elements of the sequence are drawn as vectors starting at $(0, 0)$. In this talk, we will discuss adaptations and restrictions that can be placed on these directed lattice paths, where the behaviour of associated generating functions remains 'nice'. This is as a result of language theoretic considerations, which will be discussed in the talk. Based on joint work with many people from the University of Klagenfurt!

We hope to see you there!