ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO A GUEST LECTURE

A generalisation of k-Dyck paths

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Chaired by Clemens Heuberger, Benjamin Hackl | Department of Mathematics

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N.0.07

ABSTRACT

A k-Dyck path is a non-negative lattice path that starts and ends on the line $y = 0$, and consists of steps $(1, 1)$ and $(1, -k)$. In this talk we will provide an extension of k-Dyck paths and discuss some results relating to their enumeration and analysis. As an application, we will show how these paths assist in enumerating a family of walks in the quarter plane $(\mathbb{Z}_{\geq 0} \times \mathbb{Z}_{\geq 0})$.

We hope to see you there!