

# INVITATION TO A GUEST LECTURE

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“A generalisation of  $k$ -Dyck paths”

📍 N.0.07

📅 Tuesday, 23 July 2019

🕒 10:30 a.m.

## 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  $(\mathbb{Z}_{\geq 0} \times \mathbb{Z}_{\geq 0})$ .

Benjamin Hackl, Clemens Heuberger and the Department of Mathematics look forward to seeing you at the talk!