

## INVITATION TO A GUEST LECTURE

## Sarah Selkirk

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## "A generalisation of k-Dyck paths"

**Q** N.0.07

🛗 Tuesday, 23 July 2019

❷ 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!

