ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

Invitation to a Guest Lecture

Sarah Selkirk
Stellenbosch University, South Africa

"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!