

INVITATION TO THE DOCTORAL SEMINAR

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"Down-step statistics in generalized Dyck paths"

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https://classroom.aau#/Wednesday, 2 December 2020 ezd-k9g ❷ 10:00 a.m.

Abstract

In this talk we will discuss the enumeration of the number of down-steps between pairs of up-steps in k_t -Dyck paths, which are a generalization of Dyck paths consisting of steps $\{(1, k), (1, -1)\}$ such that the path stays (weakly) above the line y = -t. These down-step statistics have applications in other combinatorial enumeration problems. We will also establish a connection between these k_t -Dyck paths and binary matrices used in coding theory, connecting the two areas of study and leading to a new interpretation for the Catalan numbers.

Barbara Kaltenbacher and the Department of Mathematics look forward to seeing you at the talk!

