#### S-Motzkin paths with catastrophes and air pockets (very early version)

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#### A bestract

So called S-Motzkin paths are combined the concepts 'catastrophes' and 'air pockets. The enumeration is done by properly set up bivariate generating functions which can be extended using the kernel method.

Keywords: S-Motzkin path; catastrophe; kernel method; air pocket.

2020 Mathematics Subject Classification: 95A15.

#### Introduction

 $\Box$ Dyck paths consist of up-steps (1, 1) and down-steps (1, -1), start at the origin and do not go below the x-axis; they appear in many texts, we just give one major reference, [12]. Typically, the path returns to the x-axis at the end, but we also consider the scenario of open paths, where the paths end at level j, say. A popular variation of Dyck paths are Motzkin paths; the difference is just that now a horizontal step (1,0) is also allowed.

In this paper, we concentrate on S-Motzkin paths, which is a subfamily of all Motzkin paths: all three steps (up, level, Solown) must appear n times, and, ignoring the down-steps, the sequence is  $(1,0)(1,1)(1,0)(1,1)(1,0)(1,1)\dots(1,0)(1,1)$ .



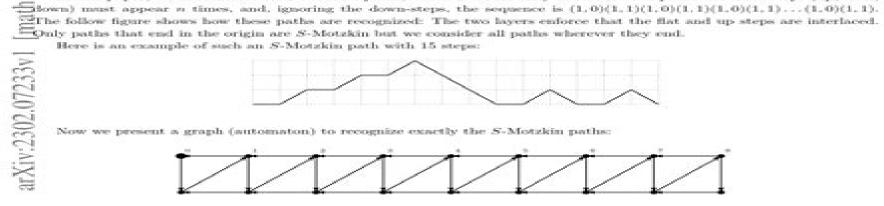


Figure 1: Graph to recognize S-Motzkin paths; they start and end at the special state (origin).

This subfamily of Motzkin paths originated from a question in a student competition; see [10] and [7] for history and analysis. In the following we will combine this family with catastrophes and air pockets, both originating in papers by Jean-Luc Baril and his team [5], [3]; the older paper by Banderier and Wallner [2] might be called the standard reference for lattice paths with catastrophes. The very recent papers [4,5] contain some bijective aspects. Our own paper [9] investigates the situation in the context of slow Dyck paths.

Dyck (and other lattice) paths with catastrophes are characterized by additional steps ('catastrophes') that bring the path back to the x-axis in just one step from any level  $j \ge 2$ . For S-Motzkin paths the definition is similar, and the graphical description in Figure 2 is easiest to understand; the catastrophes are drawn in special colors.

In the last section, S-Motzkin paths with air pockets will be discussed. Briefly, down steps of any length are now allowed, but no two down steps may follow each other.

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