

## ***(r,k)-Zebra Tree and Schröder Paths***

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An ordered tree, also known as a plane tree or a planar tree, is defined recursively as having a root and an ordered set of subtrees. An  $(r,k)$ -zebra tree is an ordered tree where all edges connected to the root (call this height 1) are  $r$ -colored as are all edges at odd heights and edges at even heights are  $k$ -colored. In this talk, we will discuss the special case when  $r = 3$  and  $k = 2$ , and show that the generating function that counts such trees also counts the number of Schröder paths with bicolored down steps.

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