

Zebra Trees

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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. A *zebra tree* is an ordered tree where all edges connected to the root (call this height 1) are bicolored as are all edges at odd height. The edges at even height are all black as usual. In this presentation we show that the number of *zebra trees* with n edges is the n^{th} large Schröder number r_n . We also show that the average root degree approaches $2\sqrt{2} + 1$.

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