

Robert Davis and Greg Simay

*Further Combinatorics and Applications of Two-toned Tilings,*

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**Abstract**

Integer compositions, integer partitions, Fibonacci numbers, and generalizations of these have recently been shown to be interconnected via two-toned tilings of horizontal grids. In this article, we present refinements of two-toned tilings, describe functions that analyze them, and apply these to generalizations of integer compositions and partitions that interpolate between the two.