

THE STATISTICAL STRUCTURE OF CONCAVE COMPOSITIONS

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ABSTRACT. Concave compositions are an extension of partitions that were considered by Andrews, Rhoades, and Zwegers. These authors presented several open problems regarding the statistical structure of concave compositions including the distribution of the perimeter and tilt, the number of summands, and the shape of the graph of a typical concave composition. This talk will introduce concave compositions and present solutions to these questions.