

PROOF OF A CONJECTURE OF CHAN, ROBBINS, AND YUEN *

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Abstract. Using the celebrated Morris Constant Term Identity, we deduce a recent conjecture of Chan, Robbins, and Yuen (math.CO/9810154), that asserts that the volume of a certain $n(n-1)/2$ -dimensional polytope is given in terms of the product of the first $n-1$ Catalan numbers.

Key words. combinatorics, Catalan numbers, polytope.

AMS subject classifications. 05-XX, 52B05.

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