

A Unification of Two Refinements of Euler's Partition Theorem

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Dedicated to Professor George Andrews on the Occasion of His Seventieth Birthday.

Abstract: We obtain a unification of two refinements of Euler's partition theorem respectively due to Bessenrodt and Glaisher. A specialization of Bessenrodt's insertion algorithm for a generalization of the Andrews-Olsson partition identity is used in our combinatorial construction.

AMS Classification: 05A17, 11P81

Keywords: partition, Euler's partition theorem, refinement, bijection, Bessenrodt's bijection, Andrews-Olsson's theorem.

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