

1053-05-353

Hasan Coskun* (hasan_coskun@tamu-commerce.edu), Department of Mathematics, 2600 S. Neal St., Commerce, TX 75429. *A Multilateral Bailey Lemma and Multiple Andrews-Gordon Identities.*

We present a multilateral version of a BC_n Bailey Lemma using the hyperoctahedral symmetries of Macdonald functions and Jackson coefficients. We then use the lemma to generate multiple analogues of Andrews-Gordon identities. (Received September 09, 2009)