

1116-33-1228

Gaurav Bhatnagar* (bhatnagarg@gmail.com), Indian Statistical Institute, 7, S. J. S. Sansalwal Marg, New Delhi, 110016, India. *A_n to A_m transformation formulas using Heine's method.*

We study Andrews' generalization of Heine's transformation for ${}_2\phi_1$ series, and related identities that are closely related to many q -series identities due to Ramanujan. We generalize Andrews' identities to the setting of multivariable series related to the root system A_n . Our formulas transform an A_n series into a multiple of an A_m series, somewhat like the results of Kajihara (2004). However, our identities are more closely related to multivariable q -binomial identities due to Gustafson and Krattenthaler (1997), Milne (1997), and Milne and Lilly (1995). (Received September 18, 2015)