

**Multisums related to Rogers–Ramanujan type identities and their refinements**

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**Abstract:** There has been a recent influx of Andrews–Gordon identities like multi nested  $q$ -series representations of the generating functions for the number of partitions with certain difference conditions. We will present how one can refine these generating functions by imposing bounds on the largest part of the related partitions. These refinements will lead to many polynomial identities.