

**Title:**

Ramanujan types of congruences for Andrews' singular overpartition pairs

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**Abstract:**

Andrews defined the combinatorial objects called singular overpartitions. The number of overpartitions of  $n$  in which no part is divisible by  $k$  and only parts  $\equiv \pm i \pmod{k}$  may be overlined is denoted by  $\overline{C}_{k,i}(n)$ . Very recently, Naika has defined Andrews singular overpartition pairs. The number of singular overpartition pairs of  $n$  in which no part is divisible by  $\delta$  and only parts  $\equiv \pm i, \pm j \pmod{\delta}$  may be overlined is denoted by  $\overline{C}_{i,j}^{\delta}(n)$ . We obtain some new congruences modulo 8 and 16 for  $\overline{C}_{1,2}^6(n)$  and  $\overline{C}_{7,14}^{42}(n)$ .