

1125-11-1585 **Frank Garvan*** (fgarvan@ufl.edu). *The Andrews spt-function mod 4*. Preliminary report.

The Andrews spt-function, $\text{spt}(n)$, is the number of smallest parts in the partitions of n . This function has a number of surprising arithmetic properties, and has been studied by a number of authors. The parity of $\text{spt}(n)$ is completely determined by the prime factorisation of $24n - 1$. The parity result was proved by Andrews, the author and Liang, and corrected an earlier result of Folsom and Ono. In this talk we present a number of conjectures for $\text{spt}(n) \pmod{4}$. (Received September 18, 2016)