

1106-11-1220 **Armin Straub*** (astraub@illinois.edu). *Congruences for Fishburn numbers modulo prime powers.*

The Fishburn numbers $\xi(n)$ are defined by the formal power series

$$\sum_{n \geq 0} \xi(n)q^n = \sum_{n \geq 0} \prod_{j=1}^n (1 - (1 - q)^j).$$

Recently, G. Andrews and J. Sellers discovered congruences of the form $\xi(pm + j) \equiv 0$ modulo p , valid for all $m \geq 0$. These congruences have then been complemented and generalized to the case of r -Fishburn numbers by F. Garvan. In this talk, we answer a question of Andrews and Sellers regarding an extension of these congruences to the case of prime powers. We show that, under a certain condition, all these congruences indeed extend to hold modulo prime powers. (Received September 11, 2014)