## 1027-20-12 James P Cossey\* (cossey@math.arizona.edu), 617 N Santa Rita Ave, Tucson, AZ 85721. Uniqueness of Lifts of Specht Modules in the Symmetric Group.

Recently Fayers has proven a combinatorial condition on partitions that classifies exactly when the Specht module associated to that partition remains irreducible modulo some odd prime p. In this note we show that a uniqueness condition holds as well. More specifically, if p is an odd prime and  $\lambda$  and  $\sigma$  are partitions of n such that  $S^{\lambda} \cong S^{\sigma}$ , and both are irreducible as modules over  $\mathbb{F}_p$ , then  $\lambda = \sigma$ . A more general result in this direction is known. However, we will discuss a method that builds on the methods of Fayers, and look at some related combinatorial questions. (Received December 15, 2006)