1116-05-573 **George E Andrews***, Department of Mathematics, Pennsylvania State University, 306 McAllister Bldg., University Park, PA 16802. *A Refinement of the Alladi-Schur Theorem.*

In 1926, I. Schur proved that if A(n) equals the number of partitions of n into parts congruent to 1 or 5 modulo 6, and B(n) equals the number of partitions of n in which any two parts differ by at least 3 and multiples of 3 differ by more than 3, then A(n)=B(n). In the 1990's K. Alladi noted that if C(n) equals the number of partitions of n into odd parts none repeated more than twice, then also C(n)=B(n). We shall consider the following refinement of the Alladi-Schur theorem and its implications: THEOREM. Let C(m,n) denote the number of partitions among those enumerated by C(n) that have exactly m parts. Let B(m,n) denote the number of partitions among those enumerated by B(n) where the number of odd parts plus twice the number of even parts equals m. The B(m,n)=C(m,n). (Received September 07, 2015)