

1125-11-1140      **George E. Andrews\*** ([gea1@psu.edu](mailto:gea1@psu.edu)), 306 McAllister Bldg., Mathematics Department,  
Pennsylvania State University, University Park, PA 16802. *Sequences in partitions*. Preliminary  
report.

Several years ago, the generating function for partitions with short sequences was presented (G.E. Andrews, Partitions with short sequences and mock theta functions, Proc. Nat. Acad. Sci., 102(13),(2005), 4666-4671). Recently, in joint work with E. Deutsch (A note on the method of Erdos and the Stanley-Elder partition theorems, INTEGERS, 16, A24(2016)), we proved a very general theorem which, in a special case, counted the total number of sequences of length  $k$  in the partitions of  $n$  (a result originally found by A. Knopfmacher and A. Munagi, Ramanujan J., 18(2009),239-255). In this talk, we follow up on the possible ways of merging these studies of sequences in partitions (Received September 15, 2016)