

1106-05-1007 **Bertilla Sieben*** (bsieben@princeton.edu). *Universal Cycles of Partitions*. Preliminary report. In this talk, we will first show that the ratio $\frac{S_d(n,k)}{S(n,k)} \rightarrow 1$ (the ratio of the number of partitions of a set of n elements into k subsets of distinct sizes over the total number of partitions of a set of n elements into k subsets goes to 1) as $n \rightarrow \infty$ and k is fixed. We will then show that there exist universal cycles of partitions of sets of n elements into k subsets of distinct sizes when k is sufficiently smaller than n , and therefore that there exist U-packings of partitions of sets of size n into k subsets. (Received September 16, 2014)