1052-05-213 **Sylvie Corteel** and **Carla D Savage*** (savage@csc.ncsu.edu), Dept. of Computer Science, Box 8206, North Carolina State University, Raleigh, NC 27695-8206, and **Andrew V Sills**. *A new view of the little Göllnitz products.*

We give a combinatorial proof of the following theorem: The number of partitions of $N$ into distinct parts in which odd-indexed (even-indexed) parts are even is equal to the number of partitions of $N$ into parts congruent to 2,3,7 (mod 8) (1,5,6 (mod 8)). This provides a new view of the infinite products appearing in the little Göllnitz identities. We also show that a finite version of the little Göllnitz product counts lecture hall partitions in which in which odd-indexed (even-indexed) parts are even, giving an analog of the Lecture Hall Theorem of Bousquet-Mélou and Eriksson. (Received August 28, 2009)