1047-11-89 **Byungchan Kim*** (`bkim4@illinois.edu`), 1409 West green street, Urbana, IL 61801. *On the subpartitions of the ordinary partitions.*

Let $a_1 \geq a_2 \geq \cdots \geq a_\ell$ be an ordinary partition. A subpartition with gap d of an ordinary partition is defined as the longest sequence satisfying $a_1 > a_2 > \cdots > a_s$ and $a_s > a_{s+1}$, where $a_i - a_j \geq d$ for all $i < j \leq s$. This is a generalization of the Rogers-Ramanujan subpartition which was introduced by L. Kolitsch. In this talk, we will present various properties of the subpartition and as an application, we will give a combinatorial proof of two entries which are in Ramanujan's lost notebook. (Received January 19, 2009)