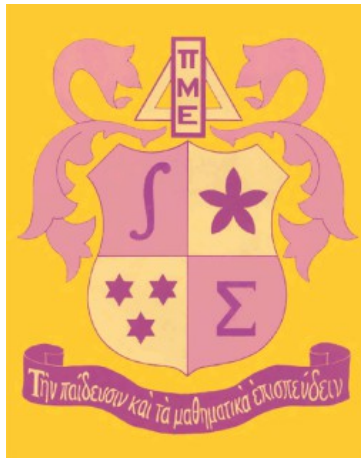


# Pi Mu Epsilon

*The mathematics honors society for university students*



**Thursday, November 14th, 2019**  
**12:15-12:50 PM in Hume 201**

**Dr. Ayla Gafni**

## *Integer Partitions*

An integer partition of  $n$  is a non-increasing sequence of positive integers whose sum is equal to  $n$ . For example there are 5 partitions of 4:

4, 3+1, 2+2, 2+1+1, 1+1+1+1

This simple definition is the seed of a deep mathematical theory that spans number theory, combinatorics, and analysis, dating back centuries. We will explore the patterns and relations that can be found among partitions and discuss some open problems that have mystified mathematicians for generations.

**See you Thursday!**