Discrete Mathematics Seminar

Time: Friday, 13 September 2013, 1:00 – 2:00 PM
Location: 238 Derrick Hall
Title: An introduction to true-palindromic compositions
Speaker: Dr. Caroline Shapcott, Department of Mathematical Science,
Indiana University South Bend

Abstract:

A true-palindromic composition of n is a sequence of positive integers that sum to n and whose part-sequence and digit-sequence are the same whether read from left to right or right to left. Because of inherent connections to the integer reversal function, the true-palindromic restriction is a nontrivial adaptation of the better-known palindromic restriction which requires only that the part-sequence of a composition be the same whether read from left to right or right to left. Generating functions and asymptotic formulas are derived for several quantities related to the set of true-palindromic compositions of n.