

Meeting: 1005, Newark, Delaware, SS 6A, Special Session on High Dimensional Probability

1005-60-112 **P. Hitczenko*** (phitczenko@cs.drexel.edu), Department of Mathematics, Drexel University, Philadelphia, PA 19104. *Some stochastic properties of random overpartitions.*

We will discuss some stochastic properties of overpartitions of integers. This combinatorial object, a close relative of integer partitions, has proved of interest in several areas related to combinatorics and its combinatorial properties have been studied. In this talk we will concentrate on certain probabilistic aspects. As is usually the case, we will introduce the (discrete) uniform probability measure on the set of all overpartitions of integer n and we will study stochastic properties of certain parameters. Specifically, we will present a local limit theorem for the total weight of overlined parts, counted with multiplicities.

This talk is based on a joint work with S. Corteel and W. Goh and is a continuation of an earlier research by the first collaborator and this speaker. (Received February 02, 2005)