

The University of Chicago
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First Year PhD Presentation

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**Partition Structures Invariant
Under Deletion of a Random Part**

WEDNESDAY, May 26, 2010, at 4:15 PM
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

A partition structure is a sampling consistent set of distributions over random partitions, originally defined for models in population genetics. An example is the Ewens structure, which enjoys the invariance property with respect to deletion of a size-biased part. A. Gnedin and J. Pitman (2004) generalized this property to a general deletion kernel by defining regenerative partition structures and associated them with the betterstudied regenerative composition structures. In this presentation, I will show the related definitions and the main results about regenerative partition structures in their paper.