



The University of Chicago  
Department of Statistics

FIRST YEAR PHD PRESENTATION

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**Information Flow on Trees**

**TUESDAY, May 22, 2012, at 5:45 PM**  
110 Eckhart Hall, 5734 S. University Avenue

**ABSTRACT**

We consider a tree network, where we want to study the flow of information from the root to the nodes. Each edge of the tree acts as an independent copy of a given channel  $M$ . We deal the solvability of the reconstruction problem on this tree through some examples and some results. The basic question that we address is, “Does the configuration obtained at level  $n$  of  $T$  contain significant information about the root?”

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