



The University of Chicago
Department of Statistics

Mini-seminars for Second Year Ph.D. Students

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Department of Statistics
The University of Chicago

**A New Identification Condition for Recursive Models
with Correlated Errors**

TUESDAY, April 8, 2008 at 5:00 pm
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

Structural equation modelling is widely used in social sciences and many other contexts. A key challenge in this approach is the identifiability of the model parameters. This talk will show that a certain class of graphical models, namely, bow-free acyclic path diagrams will have almost everywhere identifiability. The proof also demonstrates a procedure for identification. Further challenge of conditions on everywhere identifiability will be posed and a proposition of identifiability on 4 vertices bow-free acyclic path diagrams will be discussed.