

Department of Mathematical Sciences
Colloquium

PETER OLOFSSON

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*Multitype Branching Processes:
What They Are and How to Make Them Useful*

I will start with a quick non-technical introduction to multitype branching processes. Next, I will describe how to model the biological process of a particular type of mutation in mitochondrial DNA as a multitype branching process and explain why classical asymptotic results are useless to analyze this model. Finally, I will state results about sampling in finite time from a multitype branching process that resolve the problems.

**Friday, September 30, 2005 at 4 pm. in Bell Hall 143
The University of Texas at El Paso**

Please note the unusual time for the Colloquium.
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Refreshments will be served in front of the colloquium room,
15 minutes before the start of the colloquium.

For further information, please contact Dr. Pavel Šolín, Bell Hall 220. Phone:
(915) 747-6770, email: solin@utep.edu.