

## STANFORD PROBABILITY SEMINAR

**Yevgeniy Kovchegov**, UCLA

**Monday, 1 November 2004**

**4:15pm** (Refreshments at 4pm in the 1st Floor Lounge)

Sequoia Hall, Room 200

### **Multi-particle edge-reinforced processes**

**Abstract.** A multi-particle generalization of edge-reinforced random walk (ERRW) is introduced. We observe that in multi-particle case, most of the ERRW techniques do not work: no Polya urn representation on acyclic graphs, no partial exchangeability. The recurrence of a two-point edge-reinforced process on a one-dimensional lattice is proved.