

Departments of Statistics and Mathematics BILLINGSLEY LECTURES ON PROBABILITY

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"Phase Transitions of Random Constraint Satisfaction Problems"

THURSDAY, November 8, 2018, at 4:00 PM 1024 East 58th Street, Kent 120

Reception following the seminar in **Jones 111**, 5747 S. Ellis Avenue

ABSTRACT

Random constraint satisfaction problems encode many interesting questions in the study of random graphs such as the chromatic and independence numbers. Ideas from statistical physics provide a detailed description of phase transitions and properties of these models. We will discuss the one step replica symmetry breaking transition that many such models undergo.

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