

Meeting: 1000, Albuquerque, New Mexico, SS 15A, Special Session on Probabilistic and Geometric Methods in Learning Theory

1000-60-57 **Dmitry Panchenko***, Massachusetts Institute of Technology, 77 Massachusetts Ave., Room 2-181, Cambridge, MA 02139. *Free energy in the generalized Sherrington-Kirkpatrick model.*

Recently Michel Talagrand gave a rigorous proof of the Parisi formula in the Sherrington-Kirkpatrick model. In this talk we present the result that extends the Parisi formula to a more general class of mean field models with spins distributed according to an arbitrary probability measure on the bounded subset of the real line and with external field term given by an arbitrary bounded function of the spin. (Received August 09, 2004)