

# DEPARTMENT OF STATISTICS SEMINAR SERIES

SIDNEY SMITH HALL, ROOM SS1083

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THURSDAY, 27 SEPTEMBER 2012 AT 3:30PM

*Qp 'Vj g'J ctf 'Eqt g'O qf gn'  
''''''Cpf 'Ku'Crr rlec vqpu''*

## Kavita Ramanan

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The hard core model is a graphical model that arises in many fields including statistical mechanics, telecommunications and combinatorics. We discuss several extensions of this model and describe their properties. In particular, we discuss the implications of our results for the computation of the volume of a convex body.

The talk is based on various joint works with David Galvin, David Gamarnik, Prasad Tetali, Fabio Martinelli, and Ilze Ziedins.