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PROBABILISTIC METHODS FOR NLS 3 vertices in  $G$ . When  $G$  is a part of a lattice, this is called the lattice spacing (e.g., in [38]). For example, when  $G$  is a discrete approximation of the  $d$ -dimensional unit torus  $[0;1]^d$  represented as  $\{0,1,2,\dots,L-1\}^d$ , then  $n=L^d$  and  $h=1/L$ . In particular,  $n \rightarrow \infty$  as  $L \rightarrow \infty$ ; moreover, if  $d \geq 3$ ,  $nh^2$  also tends to  $1$  as  $L \rightarrow \infty$ .

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The basic probabilistic methods will be illustrated with recent active research in internet source detection, coding theory, and modelling ad hoc wireless networks. More advanced techniques such as martingales, and FKG, Talagrand and Janson inequalities

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Sourav Chatterjee Probability with discrete NLS. The Gibbs measure | The cubic NLS is a Hamiltonian system, with Hamiltonian  $H(\psi) = \frac{1}{2} \int |\psi|^2 dx - \frac{1}{3} \int |\psi|^3 dx$ . The above argument is a simple combination of probabilistic and PDE methods. Sourav Chatterjee Probability with discrete NLS. ... 2j4 Èñgwith probability density function proportional to  $\exp(-\int |\psi|^2 dx)$

### **Probabilistic methods for discrete nonlinear Schrödinger**

Topics in Probabilistic Methods for Discrete Mathematics Hemanshu Kaul hkaul@math.uiuc.edu May 2005  
Although combinatorial problems have arisen in all fields of mathematics throughout history, discrete mathematics has only come to prominence as a mathematical discipline over the past century.

### **Proposal for a course : Topics in Probabilistic Methods**

Combinatorics is an essential component of many mathematical areas, and its study has experienced an impressive growth in recent years. This survey contains a discussion of two of the main general techniques that played a crucial role in the development of modern combinatorics: algebraic methods and probabilistic methods.

### **Algebraic and Probabilistic Methods in Discrete**

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Consequently, a discrete probability distribution is often represented as a generalized probability density function involving Dirac delta functions, which substantially unifies the treatment of continuous and discrete distributions. This is especially useful when dealing with probability distributions involving both a continuous and a discrete part.

### **Probability distribution - Wikipedia**

- a general method for finding asymptotically optimal or near optimal graph colouring, showing how the probabilistic method may be fine-tuned to exploit the structure of the underlying graph - a succinct treatment of randomized algorithms and derandomization techniques

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