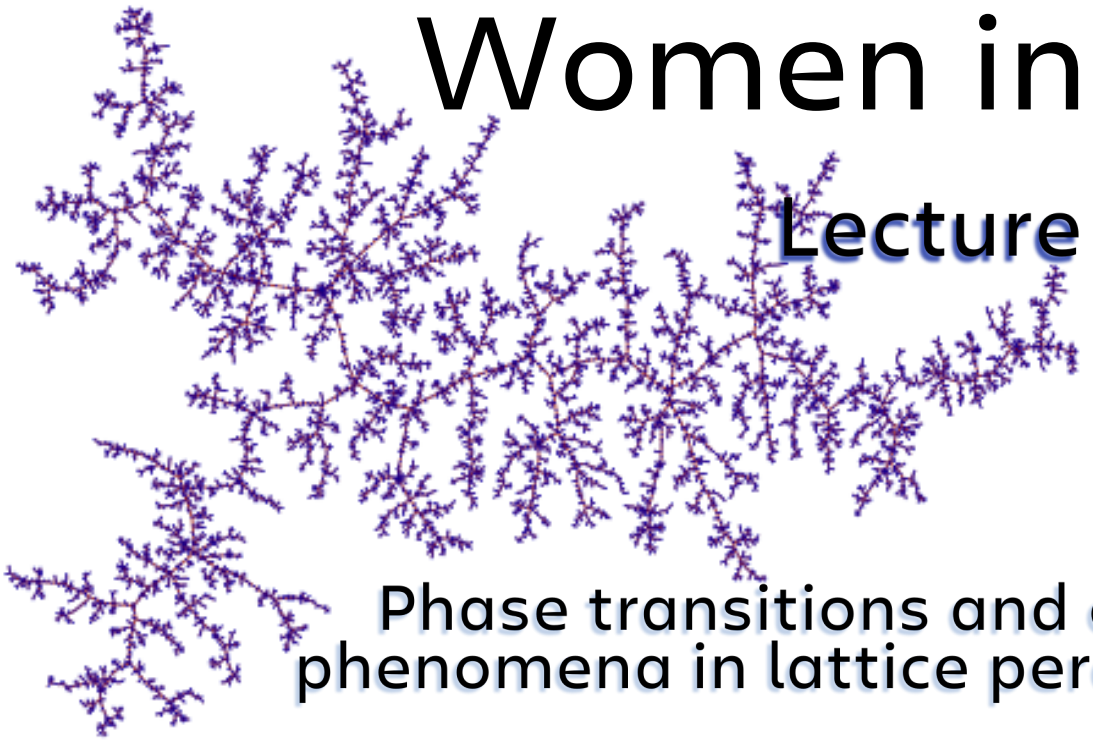
Women in Math

Lecture Series



Phase transitions and critical phenomena in lattice percolations

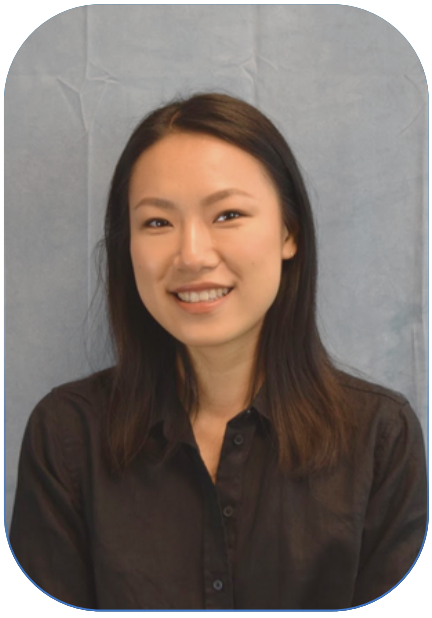
March 4 | 3:30 - 4:30 PM

Elliot 060

Light refreshments will be provided

A phase transition is a phenomenon in which the macroscopic behavior of a system changes qualitatively when the tuning parameter (such as temperature) that governs local interactions is varied by a small amount through a critical value. In statistical mechanics, percolation is a simple model that undergoes a phase transition. At the critical threshold, percolation exhibits fractal properties that prove to be a rich area of research. In this talk, I will give a high-level introduction to the dimension-dependence of critical phenomena for percolation on Euclidean lattices.

California Insitute of Technology
Lily Reeves



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