

DISSERTATION PROPOSAL PRESENTATION

Ferromagnetic Ising Model with Local Defect

WHEN

May 27, 2022**11:00 AM**

WHERE

Zoom Meeting

For ZOOM presentations, details will be provided in an email announcement for this seminar.

**Yi Wang, PhD candidate**

Lots of the time we aim to determine global optimizers via convex relaxation for an optimization problem. However, convex relaxation is usually slow. We can sometimes speed up the optimization via a multiscale divide-and-conquer approach exploiting physical structures.

In this talk I will present one application of this method to a specific problem: Ferromagnetic Ising model with local defect. Ultimately if possible, we try to determine molecule structures using similar techniques.

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