Math Physics Seminar - Khrystyna Serhyenko, University of Kentucky, Zoom

Wednesday, Feb 19th 1:30 - 2:30pm

Title: Consistent dimer models on surfaces with boundary

Abstract: A dimer model is aquiver with faces embedded in a surface, which gives rise to certain Jacobian algebras called dimer algebras. Consistent dimer models on tori have been studied extensively in the physics literature, in relation to phase transitions in solid state physics, while those on the disk are related to Grassmannian cluster algebras. We define and investigate various notions of consistency for dimer models on surfaces with boundary, generalizing various results from the torus and the disk cases. This is joint work with Jonah Berggren.

Zoom: link at **https://www.math.purdue.edu/~ebkaufma/seminar.html**