

Ypatia 2022 - June 8-10, 2022

vendredi 10 juin 2022

Abstract: Spin models describe magnetic properties of materials. In this talk we will examine a 2-d planar spin model (the $J_1 - J_2 - J_3$ model) which exhibits frustration, a mechanism that leads to complex geometric patterns in the material. A discrete-to-continuum variational analysis allows us to show that the surface tension between different chiral phases is captured by a suitable continuum energy. (17:15 - 17:35)