MRSEC SEMINAR SERIES

"The Frustration Paradigm."

Collective behavior in solids yields ordered states and their elementary excitations. States with high functionality are often obtained by balancing forces, either internally or against external fields. While lattice structure has always been determinant for ground state selection, lattice symmetry relative to the local degrees of freedom, is often overlooked as a tuning parameter for force balancing. The Frustration Paradigm considers the interplay of local and extended symmetries as a potential tool for materials design. I will discuss the main ideas for magnetic solids as well as other instantiations. These ideas might be central to the design of quantum materials.



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Wednesday, June 3, 2015 Tech LR5 4:00 – 5:00 p.m.



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