Speaker: Gheehyun Nahm (Princeton U)

Title: Unoriented link Floer homology and Khovanov homology

Abstract: We study a variant of the unoriented link Floer homology defined by Ozsváth, Stipsicz, and Szabó, and construct a spectral sequence from various versions of Khovanov homology to the corresponding versions of unoriented link Floer homology over the field with two elements. In particular, we obtain a spectral sequence from reduced Khovanov homology to knot Floer homology over the field with two elements. This is a Heegaard Floer analogue of Kronheimer and Mrowka's spectral sequence from Khovanov homology to singular instanton Floer homology.