1108-58-576   **Aliakbar Daemi*** (`adaemi@scgp.stonybrook.edu`). *Abelian Gauge Theory and Khovanov Homology.*

Plane Floer homology is a functor from the category of 3-manifolds and cobordisms to the category of modules, defined with the aid of abelian gauge theory. This invariant can be utilized to define plane knot homology, itself an invariant of knots and links in the 3-dimensional sphere. In my talk, after giving the definition of plane Floer homology, I will discuss the relationship between this invariant and various Khovanov-type homologies. (Received January 20, 2015)