

1106-57-1106

**Ina Petkova\*** (ina@rice.edu) and **Vera Vertesi**. *Combinatorial tangle Floer homology*.

We extend the functoriality in Heegaard Floer homology by defining a Heegaard Floer invariant for tangles which satisfies a nice gluing formula. We will discuss the construction of this combinatorial invariant for tangles in  $S^3$ ,  $D^3$ , and  $I \times S^2$ . The special case of  $S^3$  gives back a stabilized version of knot Floer homology. No prior knowledge of Heegaard Floer homology will be assumed for this talk. (Received September 10, 2014)