

1112-57-541

**Ina Petkova** ([ina@math.columbia.edu](mailto:ina@math.columbia.edu)) and **C.-M. Michael Wong\***  
([cmmwong@math.columbia.edu](mailto:cmmwong@math.columbia.edu)). *An unoriented skein exact triangle for tangle Floer  
homology*. Preliminary report.

Knot Floer homology, a link invariant with rich applications defined by Ozsváth–Szabó and Rasmussen, has been shown by Manolescu to satisfy an unoriented skein exact triangle. A combinatorial proof has later been provided by the second author. More recently, inspired by the work of Lipshitz–Ozsváth–Thurston on bordered Floer homology, Vera Vértesi and the first author have defined tangle Floer homology, a tangle invariant that satisfies a pairing theorem, recovering the knot Floer homology of a link obtained by gluing tangles. In this talk, we prove that an analogous skein exact triangle is satisfied by combinatorial tangle Floer homology, indicating concretely how this skein relation can be viewed as a local property of links. The proof is reminiscent of the combinatorial proof for knot Floer homology mentioned above. No prior knowledge is necessary for the talk, as a brief introduction to tangle Floer homology will be given. (Received August 11, 2015)