Akram Alishahi* (alishahi@math.columbia.edu) and Eaman Eftekhary. Heegaard Floer homology for tangles and tangle cobordisms.

Tangles are a generalization of classical oriented tangles such that any sutured manifold without toroidal sutures determines a tangle. In this talk, we introduce a framework that extends different versions of Heegaard Floer invariants for tangles, generalizing sutured Floer homology. Furthermore, associated with cobordisms between tangles we define an invariant homomorphism between Heegaard Floer homologies of the corresponding tangles. These maps generalize cobordism maps associated to 4-dimensional cobordisms between closed 3-manifolds and define cobordism maps for decorated cobordisms between pointed knots. This is a joint work with Eaman Eftekhary. (Received August 16, 2016)