

## **Abstract**

Floer theory is a power tool in low-dimensional topology. It appears in different guises and yields a host of algebraic invariants of 3-manifolds and knot concordance. In this talk, I will discuss equivariant Seiberg-Witten Floer cohomology for the action of involutions on rational homology 3-spheres. This gives rise to distinct families of numerical invariants and I will exhibit their utility in several applications. This is joint work with David Baraglia.