

1124-53-295

**Kristen Hendricks\*** (hendricks@math.msu.edu), **Robert Lipshitz** (lipshitz@uoregon.edu)  
and **Sucharit Sarkar** (sucharit@math.ucla.edu). *A simplicial construction of  $G$ -equivariant  
Floer homology.* Preliminary report.

For  $G$  a Lie group acting on a symplectic manifold and preserving a pair of Lagrangians, we use techniques from simplicial sets to construct the  $G$ -equivariant Floer homology of  $L_0$  and  $L_1$  without equivariant transversality. We give a sample application to symplectic Khovanov homology, and discuss other places in low dimensional topology where it would be interesting to apply this construction. (Received September 12, 2016)