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Yi Ni* (yni@math.princeton.edu), Department of Mathematics, Princeton University, Fine Hall, Washington Road, Princeton, NJ 08544. *Genera of links in homology spheres.*

During recent years, the relationship between Floer homology and Thurston norm has been extensively studied. In particular, Ozsváth and Szabó proved that knot Floer homology detects the genus of a knot in S^3 . In this talk, we will generalize their result to links in homology spheres. Our result has been used by Ozsváth and Szabó to prove that link Floer homology detects the Thurston norm of link complements. (Received February 11, 2006)