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**Jennifer Hom\*** ([hom@math.columbia.edu](mailto:hom@math.columbia.edu)). *Knot Floer homology and concordance.*

We will discuss applications of knot Floer homology to concordance. In particular, we will compare the four-ball genus and concordance genus bounds given by  $\varepsilon$ ,  $\Upsilon(t)$ ,  $\tau$ , and  $\nu^+$ , which are all numerical invariants associated to the knot Floer complex. Parts of this talk are joint work with Zhongtao Wu. (Received January 18, 2015)