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**Jennifer Hom\*** ([jenhom@math.upenn.edu](mailto:jenhom@math.upenn.edu)). *The knot Floer complex, cabling and concordance*. Preliminary report.

We will use the bordered Heegaard Floer package of Lipshitz, Ozsváth and Thurston to give a formula for  $\tau$  of the  $(p, q)$ -cable of a knot  $K$  in terms of  $p$ ,  $q$ , and two smooth concordance invariants,  $\tau$  and  $\varepsilon$ , associated to the knot Floer complex of  $K$ . We will discuss various properties of  $\varepsilon$ , including applications to the knot concordance group. (Received September 12, 2010)