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Jennifer Hom*, jenhom@math.upenn.edu. *Bordered Heegaard Floer homology and the τ -invariant of cable knots.* Preliminary report.

We will use bordered Heegaard Floer homology to give a formula for the Ozsváth-Szabó concordance invariant τ of the (p, q) -cable of a knot K , in terms of p , q , and two invariants, $\tau(K)$ and $\delta(K)$, associated to the knot Floer complex of K . As a consequence, we will show that for any integer n , there exist knots K and K' with $\tau(K) = \tau(K') = n$, such that $\tau(K_{p,q}) \neq \tau(K'_{p,q})$, for all pairs of relatively prime integers p and q . (Received March 30, 2010)