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Allison H Moore* (moorea8@math.utexas.edu), 3504 S. 1st St., Austin, TX 78704. *The total rank conjecture in knot Heegaard Floer homology.* Preliminary report.

Let K be a knot in S^3 with knot Heegaard Floer homology groups $\widehat{HFK}_m(K, s)$. The total rank conjecture asserts that the sum over all bigradings (m, s) of the free ranks of these groups, $\bigoplus_{m,s} \text{rank} \widehat{HFK}_m(K, s)$, is invariant under Conway mutation, or more generally, genus 2 mutation. We will construct infinitely many examples of genus 2 mutant pairs with invariant total rank and mention some interesting consequences of the conjecture. (Received September 24, 2012)