

1071-57-33

Joshua Evan Greene* (josh@math.columbia.edu). *Conway mutation and alternating links.*

We prove that a reduced, alternating link diagram is determined up to mutation by the Heegaard Floer homology of the link's branched double cover. Thus, alternating links with homeomorphic branched double covers are mutants. We will mention some consequences of this result and give an indication of the proof, which involves studying the lattice of integral flows on a finite graph. (Received January 16, 2011)