1054-57-65

Thomas W Mattman* (TMattman@CSUChico.edu), Department of Mathematics, California State University, Chico, Chico, CA 95926, and Pablo Solis (pablo@math.berkeley.edu), Department of Mathematics, University of California, Berkeley, CA. A proof of the Kauffman-Harary Conjecture.

We prove the Kauffman–Harary Conjecture, posed in 1999: given a reduced, alternating diagram P of a knot with prime determinant p, every non-trivial Fox p-coloring of P will assign different colors to different arcs. (Received September 01, 2009)