1025-57-162

Oliver T. Dasbach^{*} (kasten@math.lsu.edu), D. Futer, E. Kalfagianni, X.-S. Lin and N. Stoltzfus. Alternating sum formulae for the determinant of a link.

A classical result states that the determinant of an alternating link is equal to the number of spanning trees in a checkerboard graph of an alternating connected projection of the link. We generalize this result to show that the determinant is the alternating sum of the number of quasi-trees of genus j of the dessin of a non-alternating link. (Received January 22, 2007)