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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)