DAVID BRYDGES, University of British Columbia *A combinatorial generalisation of Cramer's rule*

We review a result of G. X. Viennot, Lecture Notes in Mathematics 1234(1986), and comment on its significance for statistical mechanics: a ratio of generating functions for disjoint oriented loops in a finite graph can be expressed in terms of the generating function of a single path in the graph weighted according to loops in the path. The result is a generalisation of Cramer's formula for the inverse of a matrix.