Kenneth Matheis* (kmatheis@fau.edu), Deptment of Mathematical Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, and Shanzhen Gao (sgao2@fau.edu), Deptment of Mathematical Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. Enumeration of Integer Matrices with Constant Row and Column Sums.
The enumeration of integer matrices with constant row and column sums has been the subject of considerable study, and it is unlikely that simple formulas exist except for some very trivial cases. We will present some new results and problems in this area. (Received August 27, 2009)

