1077-05-1477          **Kyungyong Lee*** (`klee@math.wayne.edu`) and **Ralf Schiffler** (`schiffler@math.uconn.edu`).
*Proof of a positivity conjecture by M. Kontsevich.*

We prove a conjecture of Kontsevich, which asserts that the iterations of the noncommutative rational map $F_r : (x, y) \mathrel{--}> (xyx^{-1}, (1 + y^r)x^{-1})$ are given by noncommutative Laurent polynomials with nonnegative integer coefficients. (Received September 19, 2011)