1116-41-33 **George A Anastassiou*** (ganastss2@gmail.com), Department of Mathematical Sciences, University of Memphis, Memphis, TN 38152. *Bivariate Left Fractional Polynomial Monotone Approximation.*

Let f be continuously differentiable on unit square of order (r,p), r, p in N, and let L be a linear left fractional mixed partial differential operator such that L(f) is non-negative, for all (x,y) in a critical region of unit square that depends on L. Then there exists a sequence of two-dimensional polynomials Qm,n(x,y) with L(Qm,n(x,y)) non-negative there, where m,n in N such that m>r, n>p, so that f is approximated left fractionally simultaneously and uniformly by Qm,n on unit square. This restricted left fractional approximation is accomplished quantitatively by the use of a suitable integer partial derivatives two-dimensional first modulus of continuity. (Received June 05, 2015)