1079-42-194   **Brian Simanek*** (`bsimanek@caltech.edu`), 1200 E. California Blvd., MC 253-37, Pasadena, CA 91125. *Ratio Asymptotics for General Orthogonal Polynomials.*

We will discuss some new results concerning ratio asymptotics and relative asymptotics for orthogonal polynomials in settings where a finite term recursion relation for these polynomials does not exist. In particular, we will mention a ratio asymptotic result that holds when the measure of orthogonality is supported on the closed unit disk and we will show that the orthonormal polynomials are stable under certain perturbations of the corresponding measure. (Received January 12, 2012)