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Dustin G Hedmark* (dustin.hedmark@gmail.com), 221 Loch Lomond Drive, Lexington, KY 40517. *Box Polynomials*.

We define the Box polynomial, $B_{m,n}(x)$, as the sum of $\prod_i (x + \lambda_i)$ over all partitions λ that fit in the m by n grid. We give interesting properties of the coefficients of $B_{m,n}$ and also give properties of its roots, including asymptotics. This is joint work with Richard Ehrenborg and Cyrus Hettle, both of the University of Kentucky. (Received February 07, 2017)