



**DIFFERENTIAL EQUATIONS OF NON-SHEFFER  
POLYNOMIALS  $\eta_{n,m,r,\alpha}(x, y; c)$**

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Received February 3, 2020

**Abstract**

Dattoli et al. [G. Dattoli, B. Germano, M. R. Martinelle and P. E. Ricci, Sheffer and non-Sheffer polynomial families, Int. J. Math. Math. Sci. 2012, Art. ID 323725, pp. 8] defined the non-Sheffer polynomials  $\sigma_{n,\alpha}(x)$ . We define non-Sheffer polynomials  $\eta_{n,m,r,\alpha}(x, y; c)$  and examine differential equations satisfied by them.

**Keywords and phrases:** differential equations, non-Sheffer polynomials.

Pioneer Journal  
of Mathematics  
and Mathematical  
Sciences



Pioneer Scientific  
Publisher