1167-30-103   **Gi-Sang Cheon**, **Tamas Forgacs**, **Hana Kim** and **Khang Tran***
(`khangt@mail.fresnostate.edu`), Department of Mathematics, 5245 North Backer Avenue M/S
PB108, Fresno, CA 93740-0001. *Zero distribution of a Sheffer sequence.*

In this project, we study the zeros of the sequence $\{H_m(s)\}_{m=0}^{\infty}$ generated by

$$\sum_{m=0}^{\infty} H_m(s)\frac{z^m}{m!} = Q(z)^s Q(-z)^{1-s}$$

where $Q(z) = (z_1 - z)(z_2 - z)$, $z_2 > z_1 > 0$. We show that for all large m, besides the two trivial zeros at $s = 0, 1$, the zeros of $H_m(s)$ lie on the critical line $\Re s = 1/2$. (Received February 24, 2021)