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BERRY–ESSEEN TYPE INEQUALITY FOR A POISSON RANDOMLY INDEXED BRANCHING PROCESS VIA STEIN'S METHOD

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Abstract. A Berry-Esseen type inequality is proved via Stein's method for the logarithm of a Poisson randomly indexed branching process $\{Z_{N_t}\}$, where $\{Z_n\}$ is a supercritical Galton–Watson process and $\{N_t\}$ is a Poisson process which is independent of $\{Z_n\}$.

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