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Xiangying Huang* (zoehuang@math.duke.edu), Durham, NC 27705. *Exponential growth of supercritical contact process on Galton-Watson tree.*

We prove that if a supercritical contact process on Galton-Watson tree survives then it grows exponentially fast by showing that the contact process dominates a Crump-Mode-Jagers branching process. As a corollary we show that the contact process dies out at the critical value λ_1 for global survival. (Received August 20, 2019)