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**Marcus Michelen\*** ([michelen.math@gmail.com](mailto:michelen.math@gmail.com)). *Invasion percolation on Galton-Watson trees.*

We consider invasion percolation on Galton-Watson trees. On almost every Galton-Watson tree, the invasion cluster almost surely contains only one infinite path. This means that for almost every Galton-Watson tree, invasion percolation induces a probability measure on infinite paths from the root. We show that under certain conditions of the progeny distribution, this measure is absolutely continuous with respect to the limit uniform measure. This confirms that invasion percolation, an efficient self-tuning algorithm, may be used to sample approximately from the limit uniform distribution. Additionally, we analyze the forward maximal weights along the backbone of the invasion cluster and prove a limit law for the process. Based on joint work with Robin Pemantle and Josh Rosenberg. (Received August 19, 2019)