

BRANCHING INTERLACEMENT

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We analyze the trace of branching random walks on a torus, and show that they converge to a process on the full space. The limit may be thought of as a Poisson soup of infinite branching walks. There is significant similarity with the theory of interlacement as described in talks by Sznitman and others, though there are some significant differences. In particular, a notion of “branching capacity” is introduced. Joint with Balázs Ráth and Qingsan Zhu.