

Title: The probabilities of extinction in a branching random walk

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Abstract:

We consider multitype Galton-Watson branching processes with countably infinite type sets. In particular, we study the probability of extinction in (finite or infinite) subsets of types A , that is, the probability that there exists a generation after which we never see an individual in the set A . We derive conditions under which two distinct subsets of types lead to different extinction probabilities; we discuss how many distinct extinction probabilities may exist; and finally, we make progress towards locating the extinction probabilities in the set of solutions to the fixed-point equation that characterises the branching process

Zoom:

<https://unex-es.zoom.us/j/92945161214?pwd=QUMxL2V1WHlIVHE1WndYS051QU9Rdz09>

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