

## Conditioned Marked Galton-Watson trees

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We consider a Galton–Watson tree in which each node is independently marked, with a probability that depends on its number of offspring.

We give a complete picture of the local convergence of critical or subcritical marked Galton–Watson trees, conditioned on having a large number of marks.

In certain cases, the limit is a randomly marked tree with an infinite spine, known as the marked Kesten tree.

In other cases, the local limit is a randomly marked tree with a node having infinitely many children. This corresponds to the so-called marked condensation phenomenon.

Joint work with Romain Abraham and Pierre Debs.

**Orateur:** BOULAL, Sonia (Institut Denis Poisson, Université d'Orléans)