Interplay between local and global graph structures

Confirmed speakers:

Invited talks:

Johannes Lengler:
Title: Geometric inhomogeneous random graphs in non-metric spaces

Mini-courses:

Cécile Mailler:
Title: The random recursive tree and other `small world'' random trees.

Abstract: In this mini-course, we focus on `small-world'' trees, i.e. trees whose height (distance between the root and the leaf farthest to the root) is logarithmic in the number of nodes. These include the random recursive tree, the preferential attachment tree, the random binary search tree, and, more generally, most of the `split trees'' defined by Devroye in the late 80’s. In this course, we look at several properties of some of these trees: eg., their degree distribution, their profile, and their height.