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*Triangulations, dual trees and fractal dimensions*

In a classical work from 1994, David Aldous shows that a uniformly chosen triangulation of the  $n$ -gon converges in distribution to the so-called Brownian triangulation of the disk, both in the Hausdorff distance as well as with respect to the underlying dual trees. Curien and Le Gall (2011) introduce recursive laminations of the polygon and the disk, and prove their convergence on the level of random compact sets. We show that the corresponding dual trees converge (in to the so-called Gromov-Hausdorff-Prokhorov topology) and characterize the limiting object by a stochastic fixed-point equation on the space of random real trees. We also study fractal properties of the limiting object, thereby determining its Minkowski and Hausdorff dimension. Finally, we discuss generalizations of our results to related structures. This is joint work with Nicolas Broutin from INRIA, Paris.