

Thomas Budzinski

Title : Markovian triangulations and robust convergence to the UIPT

Abstract : We say that a random infinite planar triangulation T is Markovian if for any small triangulation t with boundaries, the probability to observe t around the root of T only depends on the boundaries and the total size of t . Such a property can be expected from the local limits of many natural models of random maps such as the UIPT. We will classify completely infinite Markovian planar triangulations, without any assumption on the number of ends. In particular, there is (almost) no model of multi-ended Markovian triangulation. As an application, we will see the convergence of uniform triangulations to the UIPT is robust under many kinds of perturbations, even when we are not able to count precisely the perturbed models.