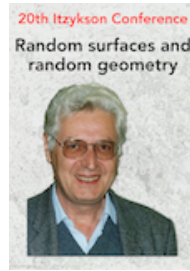


# 20ème conférence Claude Itzykson - Random Surfaces and Random Geometry



ID de Contribution: 9

Type: **Invited talk**

## Peeling of infinite Boltzmann planar maps

*vendredi 12 juin 2015 16:30 (45 minutes)*

For a long time it has been known that distances in random surfaces can be conveniently studied by considering associated peeling processes. Inspired by recent results by Curien and Le Gall in the case of random triangulations, I will give a very simple description of a particular peeling process, and its scaling limit, in the general setting of infinite Boltzmann planar maps (IBPM), where one includes independent Boltzmann weights on the faces of different degrees. I will show how using this description one can (at least heuristically) derive many explicit asymptotic relations between various quantities associated to the IBPM, including graph distance, dual graph distance, first-passage time and hop count.

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