

20ème conférence Claude Itzykson - Random Surfaces and Random Geometry



ID de Contribution: 5

Type: **Invited talk**

Random planar geometry

vendredi 12 juin 2015 17:15 (45 minutes)

We will survey recent results showing that the random metric space called the Brownian map appears as the continuous limit of various classes of large discrete random graphs embedded in the plane. These results indicate that the Brownian map is a universal model of random geometry in two dimensions, which has fractal dimension four although it has the topology of the sphere. If time permits, we will also discuss a recent work with Nicolas Curien, which shows that the Brownian map still appears when one considers local perturbations of the graph distance, for instance when one assigns random lengths to the edges of the graphs.

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