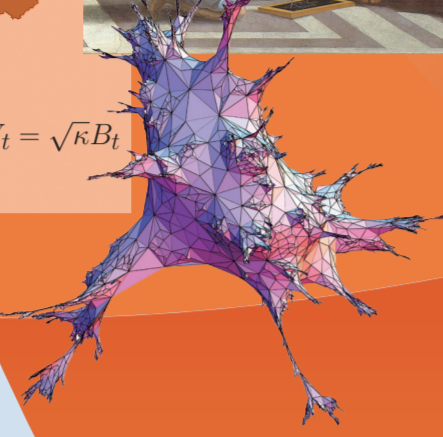


$$\partial_t g_t(z) = \frac{2}{g_t(z) - W_t}, \quad W_t = \sqrt{\kappa} B_t$$



The aim of the SwissMAP Master class 2015/2016 is to provide a small number of outstanding students with Master-level courses in probability together with more advanced courses in the field of planar statistical physics.

## 1st semester courses:

Introduction to statistical physics  
Brownian Motion and stochastic calculus  
Martingales and Markov processes  
On various aspects of the dimer and planar Ising models

## 2nd semester courses:

Conformal invariance of lattice models  
Schramm-Loewner Evolution and GFF  
Random planar maps  
Geometric representations of lattice models

## A number of mini-courses including:

Coarse geometry and random processes  
Probability on groups  
Large deviations

Additional information and application form is available on [www.nccr-swissmap.ch/master-class-2015](http://www.nccr-swissmap.ch/master-class-2015).

For questions write to [swissmapmasterclass2015@gmail.com](mailto:swissmapmasterclass2015@gmail.com).

The program is aimed at Master students. Advanced undergraduates and beginning PhD students are also welcome. The participants will enroll in a one-year master program in the university of Geneva starting in September 2015.

A number of fellowships covering accommodation and local expenses are available.

For full consideration, candidates should apply using the web form before the 17th of January 2015.

## Confirmed lecturers:

I. Benjamini  
D. Chelkak  
D. Cimasoni  
H. Duminil-Copin  
C. Hongler  
J. Miller  
S. Smirnov  
Y. Velenik  
W. Werner