

Master Class in

Mathematical Physics

Geneva 2019-2020

List of courses:

Fall:

Introduction to Statistical Mechanics I - Yvan Velenik Quantum Mechanics for mathematicians - Anton Alekseev Quantum information theory - Nicolas Brunner TBA - Stanislav Smirnov Random Matrices and Universality I - Antti Knowles **Spring:** Introduction to Statistical Mechanics II: The example of the Ising model - Hugo Duminil-Copin An introduction to Topological Field Theory - Marcos Marino

Knots and Quantum Groups: Theory and Computations without Representations - Dror Bar Natan Random Matrices and Universality II - Johannes Alt

Mini-courses:

Fall: Maxim Zabzine, Tobias Eckholm * (Uppsala)Spring: Anna Beliakova, Vincent Tassion (Zurich)* To be confirmed



Conditions:

The program is aimed at Master students and beginning PhD students. Participants will enroll in a one-year program at the University of Geneva starting in September 2019.

Fellowships covering accommodation and local expenses are available.

Participants will be offered the possibility of obtaining a Master

Degree from the University of Geneva by completing a Master Thesis for 30 additional ECTS credits.

Application deadline: January 15, 2019 nccr-swissmap.ch/master-class-2019

Questions about the program: swissmap-masterclass2019@unige.ch



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