Pluri-Potential Theory and Zeros of Random Polynomials

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Timetable: 16 hrs. POSTPONED TO THE NEXT YEAR

Course requirements:

Examination and grading:

SSD:

Course contents:

The purpose of this mini-course is to introduce basic notions of complex potential theory in order to study statistics and asymptotic distribution of zeros of random polynomials. In the first part, we will cover central objects of interest of the modern weighted pluripotential theory in several complex variables, such as the pluricomplex Green functions, regular sets, equilibrium measures, Bernstein-Markov measures and Bergman functions. In the second part, we will focus on statistics of zeros of random polynomials and polynomial mappings.

Bibliography:


