

INSTITUTUL DE MATEMATICA “SIMION STOILOW” AL ACADEMIEI ROMANE

**Seminarul de Teoria Potentialului**

*Equilibrium measures on  
configuration spaces*

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**Abstract:** "One of the main concerns of Equilibrium Statistical Mechanics is to describe the macroscopic states of a system of particles when knowing its microscopic behavior. In this sense, the macroscopic states will be described by probability measures over all possible states of the system, which are also called configurations. In this talk, we focus on interacting particle systems in continuum with the free state given by the Poisson measure. Then the equilibrium measures are obtained as perturbations of this measure, in the sense that they are locally absolutely continuous with respect to it. We discuss the existence and uniqueness of such measures."

