

Seminar of Probability and Stochastic Process

Wednesday, 5th October, from 14h15 to 15h00
[GRA3 32](#), EPFL, Ecublens

[Dr. Loren Coquille](#)

University of Geneva

Gibbs measures of the 2d Ising model

Abstract:

In the late 1970s, in two celebrated papers, Aizenman and Higuchi independently established that all infinite-volume Gibbs measures of the 2d Ising model are a convex combination of the two pure phases. After introducing the relevant definitions and concepts needed to understand the physical content of this result, I will present a new approach to it, with a number of advantages:

- (i) a finite-volume, quantitative analogue (implying the classical claim) is obtained;
- (ii) the scheme of the proof seems more natural and provides a better picture of the underlying physical phenomenon;
- (iii) this new approach seems substantially more robust (possible extension to the Potts model).

This is a joint work with Yvan Velenik.

Date of last change: Fri, 23 Sep 2011 11:45:47, by Le CHEN



Loading [MathJax]/extensions/MathMenu.js

MathJax

/extensions/TeX/AMSsymbols.js