FIM
Nachdiplomvorlesung

Sylvia Serfaty (Paris 6 / Courant Institute, New York)

Coulomb Systems and Ginzburg-Landau vortices

February 21 - May 30, 2013
Thursdays 10.15 - 12.00h
HG G 43, ETH Zürich, Rämistrasse 101

Abstract

The topic of this course is systems of points in Coulomb interaction, most of the time in the plane, with a focus on two particular instances of such systems: the classical Coulomb gas, and vortices in the Ginzburg-Landau model of superconductivity. One of the goals of the course is to show the mathematical similarities between these two systems, and to present some mathematical tools to analyze them.
It is based on joint works with Etienne Sandier.

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