

Aspects of Coulomb gases

Djalil Chafaï

This talk presents various aspects of Coulomb gases models, in connection with statistical physics, high dimensional probability, as well as numerical analysis. It is designed to be accessible, yet connected to recent results, in particular to the work <https://arxiv.org/abs/1909.00613> on two-dimensional jelliums in collaboration with Paul Jung and David Garcia-Zelada, and to the work <https://arxiv.org/abs/1907.05803> on conditioned gases in collaboration with Grégoire Ferré and Gabriel Stoltz.