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Seminario de Probabilidades

Orador: Raphaël Butez (Université de Génève, Suiza)

Título: Universality of the outliers in weakly confined Coulomb gases in dimension.

Resumen:

In the talk, we will study two particle systems with a strong conection to statistical physics: on one hand a class of Coulomb gases (model which describes the positions of electrons in dimension 2, attracted by a positive distribution of charges), and on the other hand zeros of random polynomials. For both models, it is known that most particules cluster in a compact set (the empirical measures converge), and we will study the existence of particles outside of this compact. We will see that these outliers converge towards a universal point process, called the Bergman point process, which presents some properties of conformal invariance. Based on a joint works with David García-Zelada, Alon Nishry and Aron Wennman.

El enlace para conectarse al seminario es:

Unirse a la reunión Zoom
https://reuna.zoom.us/j/84521834914?pwd=OTZ6Y0NWM3pYTGtTbEt3c0luTG96UT09

ID de reunión: 845 2183 4914
Código de acceso: 997973

Miércoles 28 de abril a las 16:15 horas.

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