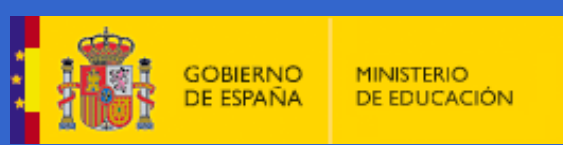




DEPARTAMENTO DE
FÍSICA TEÓRICA II



Seminario

Arno Kuijlaars
Katholieke Universiteit Leuven

“Critical behavior in non-intersecting path ensembles ”

Abstract:

I will discuss new critical behavior in two ensembles of non-intersecting path. The models have in common that they are determinantal point processes that can be analyzed with multiple orthogonal polynomials and the associated Riemann-Hilbert problem. The size of the Riemann-Hilbert problem is either 4×4 or 3×3 . The first model consists of non-intersecting Brownian bridges with two starting and two ending positions. The second model is a model of non-intersecting squared Bessel paths where the interaction with the hard edge at 0 presents a new phenomenon.

Organizado por el Departamento de Física Teórica II de la UCM y el IMI.

Fecha: 4 de junio de 2009, a las 12.00 horas
Facultad de Ciencias Físicas, AULA 3
Universidad Complutense de Madrid