

Mathematics > Probability

Coulomb gas ensembles and Laplacian growth

Haakan Hedenmalm, Nikolai Makarov

(Submitted on 15 Jun 2011 (v1), last revised 5 Jun 2012 (this version, v3))

We consider the normal matrix ensemble under a general confining potential. We find that the eigenvalues condensate on a compact set in the plane, which we call the spectral droplet. We also study the evolution of incrementally adding a dimension, i.e., adding an extra electron in this fermionic model.

Comments: 43 pages

Subjects: **Probability (math.PR)**; Mathematical Physics (math-ph); Complex Variables (math.CV)

Cite as: arXiv:1106.2971 [math.PR] (or arXiv:1106.2971v3 [math.PR] for this version)

Submission history

From: Haakan Hedenmalm P. J. [view email] [v1] Wed, 15 Jun 2011 13:54:58 GMT (47kb) [v2] Fri, 23 Mar 2012 16:14:37 GMT (48kb) [v3] Tue, 5 Jun 2012 16:08:55 GMT (49kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

We gratefully acknowledge supp the Simons Fo and member ins

Search or Article-id

(<u>Help</u> | <u>Advance</u> All papers -

Download:

- PDF
- PostScript
- Other formats

Current browse cont math.PR

< prev | next >

new | recent | 1106

Change to browse b

math math-ph

math.CV

References & Citatio

NASA ADS

Bookmark(what is this?)

