

Zhigang Bao, Guangming Pan, Wang Zhou

Mathematics > Probability

(Submitted on 4 Jun 2012)

Search or Article-id

(Help | Advance

Download:

- PDF
- PostScript
- Other formats

Current browse cont math.PR

< prev | next >

new | recent | 1206

Change to browse b

math

math-ph

References & Citatio

Bookmark(what is this?)

Comments:39 pagesSubjects:Probability (math.PR); Mathematical Physics (math-ph)MSC classes:15B52, 60F05, 60F17Cite as:arXiv:1206.0508 [math.PR](or arXiv:1206.0508v1 [math.PR] for this version)

process constructed from \$\mathcal{B}_n[f; \lfloor nt\rfloor]\$.

Central limit theorem for partial linear

eigenvalue statistics of Wigner matrices

In this paper, we study the complex Wigner matrices \$M_n=\frac{1}{\sqrt{n}}W_n\$ whose eigenvalues

\$[-2,2]\$, we establish central limit theorems for two types of partial linear statistics of the eigenvalues.

The first type is defined with a threshold $u^ = \int u^{1} \left(\frac{u^{1}}{1} \right)^{1} \left(\frac{u^{1}}{1} \right)^{1} \left(\frac{u^{1}}{1} \right)^{1} \left(\frac{u^{1}}{1} \right)^{1} \right)^{1} \left(\frac{u^{1}}{1} \right)^{1} \left$

{B}_n[f; k]=\sum_{l=1}^{k}(\lambda_l)\$ with positive integer \$k=k_n\$ such that \$k/n\rightarrow y\in

(0,1)\$ as \$n\$ tends to infinity. Moreover, we derive a weak convergence result for a partial sum

are typically in the interval \$[-2,2]\$. Let \$\lambda 1\leg \lambda 2...\leg \lambda n\$ be the ordered

eigenvalues of \$M_n\$. Under the assumption of four matching moments with the Gaussian Unitary Ensemble(GUE), for test function \$f\$ 4-times continuously differentiable on an open interval including

Submission history

From: Wang Zhou [view email] [v1] Mon, 4 Jun 2012 02:15:38 GMT (29kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.