Errata to the proceedings volume
“Recent Perspectives in Random Matrix Theory and Number Theory”

Fyodorov -
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In the bottom of p.39 there is a footnote. In this footnote second sentence should start as: "For any $0<t<2\pi$ and ..." (currently it starts not accurately enough as: "For any positive $t>0$ and...$).

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Goldston -
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Conrey 1 -
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Page 125, in paragraph after equation (6.3) D should be multiplied by $2\pi$, so it should read $D=2\pi S_N(0)=2\pi N$.
Page 129, first equation of equation (7.1) should be multiplied by N
Page 140, remove the $z^n$ in the right hand side of the first equation on the page
Page 140, put a period after the last equation on that page and delete the following words “for each j”.
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Farmer -
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Page 185, 4th line of introduction, missing word "we"
(Along the way _we_ discuss...)
Page 195, formula 7.2, there should be a square on the binomial coefficient: $a_k=\prod_p (1-1/p)^{(k^2)}\sum_{m=0}^{\infty}\binom{k+m-1}{m}^2 p^{-m}$
Page 199, the formula numbers (9.3) and (9.4) are in the middle of the display, not on the right side. The numbers can be eliminated. (or moved, but there is no need for them).
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Gonek -
Page 203, the final expression in the equation before section 3 should be \( \frac{1}{2} \log \left(\frac{1}{T} \int_0^T |f(\sigma+it)|^2 dt \right) \)

Page 203, no hyphen in “zeta function” on the last line

Page 207, no new line after “namely,” in the second to last paragraph of the page

Page 212, the exponent on \( (1+h/n) \) should be \(-\sigma\) rather than \( \sigma \) in the last line on the page

Page 215, there should be no “known” in the line before Theorem 8.1

Page 218, remove completely the sentence “Indeed, even guessing the value of \( c_k \) has been a very difficult problem” from the paragraph before Conjecture 1.

Page 221, The polynomial should be \( 1 + 9 \eta + 36 \eta^2 + 84 \eta^3 + 126 \eta^4 - 630 \eta^5 + 588 \eta^6 - 180 \eta^7 + 9 \eta^8 - 2 \eta^9 \) in order that \( w_3(\eta) + w_3(1-\eta) = 42 \) for all \( \eta \). In the book the last three signs are wrong.

Keating –

Basor –
Page 310, better if the bracket “(usually denoted by \( l^2 \))” were all on one line at the end of the paragraph after equation 1.1

Page 324, at the end of the first line of the first equation on the page and again in the equation after “By assumption” the tilde on \( g\phi \) should be larger and cover both letters. The correct format is in the equation after “are trace class, and since trace class operators for an ideal, the products” (also on the same page)

Page 328, the second to last equation before section 3 is garbled because the first character in the equation “\( \mathcal{K} \)” needs to be “\( \{\mathcal{K}\} \)”. The equation should read “\( \{\mathcal{K}\} = \{ k \ \}, \ \Re Q(k) = Q \ \} \).”
Rubinstein -
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1) page 433, third line of the last paragraph. Change

\[ \frac{1}{2} N \sim 10 |s| \]

To

\[ \frac{1}{2} N \sim \frac{|10s|}{(2 \pi)} \]

In latex it should be

\[ N \sim |10s/(2\pi)|^{1/2} \]

2) page 477, caption for figure 3. Replace
"Recently, Bogomolny, Bohigas and Leboeuf" with
"Recently, Bogomolny, Bohigas, Leboeuf and Monastra"

3) Some of the references are no longer preprints.

page 500, [CFKRS]:
replace: "preprint" with
\jour Proceedings of the London Mathematical Society, \bf 91\) (2005), 33--104.

page 500, [CFS]:
replace "preprint" with
\jour Int. Math. Res. Notices \bf 7\) (2005), 397--431

page 501, [Do]:
replace: "preprint" with
\jour Experimental Mathematics, \bf 13\) (2004), no.~2, 137--149

4) address is typset incorrectly on page 506:
replace "Faculty of Mathematics" with "Pure Mathematics"
and replace "NL2 3G1" with "N2L 3G1".

5) This would move material around from page 505 to 504 and vice versa, so it might not be possible to do, but the [RS] entry in the references should go after the [Ru4] entry and the [RudS] entry should go after the [Rud] entry.

6) Page 500. The reference [CFZ] on page 500 is now
two papers by Conrey, Farmer, Zirnbauer (call them [CFZ1] and [CFZ2]):
"Howe pairs, supersymmetry, and ratios of random characteristic polynomials for the classical compact groups"
and "Autocorrelation of ratios of $L$-functions"
Both are preprints.
They are referenced on page 491 (three lines above section 4.4.1) where
the current [CFZ] should be [CFZ1,CFZ2].

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FOOTNOTES:

Page 93: no space after "form factor" in footnote 4

Page 94: in footnote 7 where it says equation 4.19 it should be 4.18
and where it says 6.5 it should be 6.4 (all the other page and equation
numbers are correct)

Page 186: footnote 1, it should say "...lectures by D.R. Heath-Brown,
starting on page 1, Section...." i.e. instead of the "1" after Heath-
Brown there should be ", starting on page 1,"

Page 190: It should say "...contribution of D.R. Heath-Brown, page 1,
Theorem 8." i.e. a comma and "page" are missing

Page 195: in BOTH footnote 3 and 4 it should be "...Heath-Brown, page
1, ..." i.e. the word "page" is missing as well as the commas on either
side of ", page 1" in BOTH footnotes

Page 256: comma needed after "D.A. Goldston, page 79" in footnote 1

Page 281: should be "D.R. Heath-Brown, page 1, after...." i.e. it's
missing a dot after D.R and a comma and "page" after Heath-Brown.

Page 287: instead of "and in particular (4.19)" it should be "and in
particular Section 4"

Page 450: in footnote 2 there is an upside down question mark instead
of a period after "lectures of D.R"

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INDEX:

There are double entries for

a) Euler totient function
b) phi (alphabetically this is listed as "phi" but it appears as a
greek letter phi)
c) Ramanujan’s tau-function \tau(n) and the two subheadings
    L-function
    quadratic twist L-function

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INTRO:
There are two dates (both July 2004) at the end of the introduction, page ix. One should be removed.