Errata for: *An invariance principle for random planar maps*

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1. p.41, the remark made ll.9–13 is true only for the conditioned distributions $P_{\mathbf{q}}(\cdot \,|\, \#V(\mathbf{q}) = n)$ and not $P_{\mathbf{q}}$ itself, as the reasoning entails that

$$W_{\mathbf{q}}(\{(\mathbf{m}, r, \vec{e}) : \#V(\mathbf{m}) = n\}) = n \sum_{(\mathbf{m},\vec{e}):\#V(\mathbf{m})=n} W_{\mathbf{q}}(\mathbf{m})\,,$$

so that

$$P_{\mathbf{q}}(\{(\mathbf{m}, r, \vec{e})\} \,|\, \#V(\mathbf{m}) = n) = \frac{1}{n} \frac{W_{\mathbf{q}}(\mathbf{m})}{\sum_{(\mathbf{m}',\vec{e}):\#V(\mathbf{m}')=n} W_{\mathbf{q}}(\mathbf{m}')}\,.$$

2. p.43, the constant $C_{q_{\mathrm{cr}}\delta_3}$ of Formula (8) is wrong and should be

$$C_{q_{\mathrm{cr}}\delta_3} = \left(\frac{4}{3}\right)^{1/4} = 1.07456\ldots$$

This comes from a miscalculation p.55 l.5ff, where Σ^2 should be $2 - \sqrt{3}$ and not half of this quantity, as was claimed.

3. The conjecture made in the second remark p.43 l.5ff is pointless. First note that the scaling constant $C_{q_{\mathrm{cr}}\delta_3}$ was the scaling constant computed when conditioning the triangulation on its number of vertices, not faces, as was the case for k-angulations with even k, allowing to compute the scaling constant $(k(k-2)/9)^{1/4}$. Now as mentioned in Section 1.3, conditioning with respect to $\#F(M) = n$ in a triangulation ($k = 3$) amounts to conditioning with respect to $\#V(M) = n/2+2$, where n has to be an even number. Appplying the result of the main theorem, we see that the resulting scaling constant when doing this conditioning has to be changed to $2^{-1/4} C_{q_{\mathrm{cr}}\delta_3} = (2/3)^{1/4}$, which is still not equal to $(3(3-2)/9)^{1/4}$.

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