Erratum: Ising model in planar lacunary and fractal lattices: A path counting approach [Phys. Rev. B 96, 174407 (2017)]

Michel Perreau

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The following corrections address errors in the paper's text, not in the calculations. They do not affect the scientific results and conclusions of the paper.

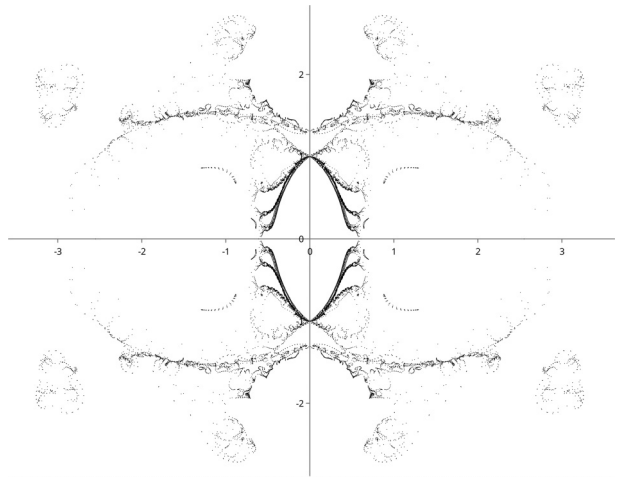
(1) Table 1, last line: MCST should be MCSD.

(2) Page 6: $\pi/4$ should be replaced by $\pi/2$ three lines before and two lines after the title of the section "Rotational invariance" (two occurrences). The smallest rotation which leaves invariant the square is $\pi/2$, not $\pi/4$.

(3) Page 7: Equation (11) should be $v_c - v_{csq} = a(1 - b^{-k})$ instead of $v_c - v_{csq} = a(1 + b^{-k})$. The same should be changed in the four axis labels and the caption of Fig. 8.

(4) Page 8: In Fig. 9, in the caption, left and right are inverted.

(5) Page 9: In Fig. 10, the graphic attributed to $SC(20, 16, 2)$ is not the spectrum but the inverse of the spectrum; it should be replaced by the following graphic:



(6) Page 10: In the formula of the internal energy U, in the first line, second equality, 128 should be replaced by $2(2n-1)$; the full equation is

$$U = -\frac{(1-v^2)}{2(2n-1)}\left[\frac{R_2'}{R_2} + \frac{2}{\pi}\left(\frac{R_1'}{R_1} - \frac{R_2'}{R_2}\right)K\left(\frac{2R_2}{R_1}\right)\right],$$

and in the second line, the argument of the elliptic function K should contain $(1 - v^{2n})$ instead of $(v^{2n} - 1)$; the formula is

$$U = \frac{n}{(2n-1)}\left[\frac{(v^{2n+2} + 3v^{2n} - 3v^2 - 1)}{2v(1-v^{2n})} + \frac{(1-v^2)(v^{4n} - 6v^{2n} + 1)}{\pi v(1-v^{4n})}K\left(\frac{4v^n(1-v^{2n})}{(v^{2n}+1)^2}\right)\right].$$

(7) An important reference is missing. Actually, several results of this paper had already been derived by Codello *et al.* [1], who then have the priority.

[1] A. Codello, V. Drach, and A. Hietanen, Approximating the Ising model on fractal lattices of dimension less than two, J. Stat. Mech.: Theory Exp. (2015) P11008.

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