

The high temperature susceptibility of the classical Heisenberg model in four dimensions

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1983 J. Phys. A: Math. Gen. 16 4427

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Corrigenda

The high temperature susceptibility of the classical Heisenberg model in four dimensions

S McKenzie, C Domb and D L Hunter 1982 *J. Phys. A: Math. Gen* **15** 3909–14

Owing to a clerical error, results for the HFCC lattice were wrongly reported. The following changes should be made.

Lines 1–3 of equation (3) should read:

$$\begin{aligned} \text{HFCC: } 1 + 8K + 61.333K^2 + 462.57777K^3 + 3458.07407084K^4 \\ + 25713.7653315K^5 + 190527.775488K^6 + 1408193.02225K^7 \\ + 10388622.3206K^8 + 76530021.6139K^9 + \dots \end{aligned}$$

Line 3 of equation (8) should read:

$$0.13722 \pm 0.00005.$$

Table 3 should be replaced by:

$D \backslash N$	2	3	4	5	6
2	0.13744 (1.110)	0.13750 (1.112)	0.13472†	0.13723 (1.095)	0.13721 (1.093)
3	0.13740 (1.109)	0.13573†	0.13733 (1.106)	0.13721 (1.093)	
4	0.13641†	0.13724 (1.097)	0.13722 (1.094)		
5	0.13735 (1.107)	0.13722 (1.094)			
6	0.13721 (1.093)				

Table 6 should be replaced by:

p^*	n	R_n	Linear extrapolants	Quadratic extrapolants	Exponent	Linear extrapolants
0.4	5	7.2031	7.3770	7.3266	-0.0580	-0.0089
	6	7.2283	7.3544	7.3092	-0.0488	-0.0030
	7	7.2441	7.3389	7.3003	-0.0417	0.0005
	8	7.2546	7.3281	7.2957	-0.0362	0.0028
	9	7.2620	7.3204	7.2933	-0.0317	0.0043
0.45 545	5	7.1755	7.3821	7.3314	-0.0769	-0.0250
	6	7.2061	7.3589	7.3126	-0.0671	-0.0182
	7	7.2257	7.3429	7.3029	-0.0595	-0.0140
	8	7.2389	7.3316	7.2977	-0.0535	-0.0112
	9	7.2483	7.3234	7.2949	-0.0485	-0.0092
0.5	5	7.1525	7.3860	7.3354	-0.0927	-0.0387
	6	7.1875	7.3625	7.3155	-0.0824	-0.0310
	7	7.2102	7.3461	7.3050	-0.0744	-0.0262
	8	7.2257	7.3344	7.2994	-0.0680	-0.0230
	9	7.2368	7.3259	7.2963	-0.0627	-0.0206

The authors are grateful to Dr W J Camp for pointing out the mistake.

Phase transitions in nonlinear Abelian Higgs models

Lawrie I D and Athorne C 1983 *J. Phys. A: Math. Gen.* **16** L587-90

Throughout the paper, the symbol CP^{2n-1} should read $CP^{\frac{1}{2}n-1}$.

The last term of equation (6) should read

$$+ (2\xi)^{-1}(\partial_\mu A_\mu - \xi\alpha e\theta)^2 - H(1 - \pi_\alpha^* \pi_\alpha)^{1/2} \cos \theta.$$

Two of the references should read

Brézin E and Zinn-Justin J 1976 *Phys. Rev. B* **14** 3110-20

Chen J H, Lubensky T C and Nelson D R 1978 *Phys. Rev. B* **17** 4274-86