Erratum: 'Critical Properties of Spin-1 Antiferromagnetic Heisenberg Chains with Bond Alternation and Uniaxial Single-Ion-Type Anisotropy' [J. Phys. Soc. Jpn. 69 (2000) 237]

Wei CHEN[1], Kazuo HIDA[2]* and Bryan C. SANCTUARY[3]

[1]*Department of Physics and Astronomy, California State University Northridge, CA 91330, USA*
[2]*Division of Material Science, Graduate School of Science and Engineering, Saitama University, Saitama, Saitama, 338-8570*
[3]*Department of Chemistry, McGill University, Montreal, PQ, Canada H3A 2K6*

(Received December 16, 2008)

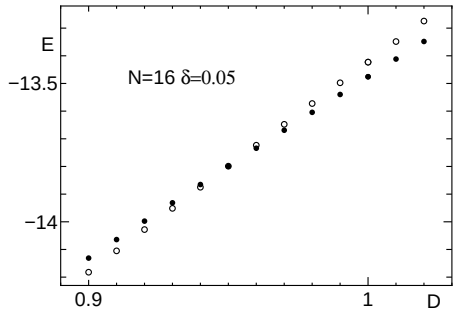

Fig. 1.

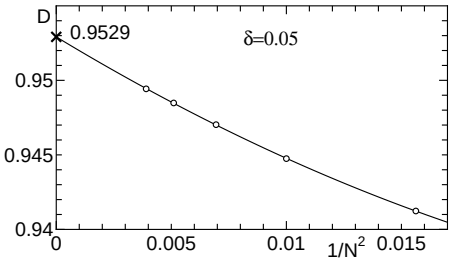

Fig. 2.

In the numerical calculation to determine the phase boundary, the D-term was missing on the boundary site $i = N$. Due to the strong system size dependence caused by this error, the phase boundary and exponents were inaccurate. Although there are corrections to all figures, we only present the corrected Figs. 1, 2, 3, 6 and 7. We have checked that c is closer to unity than the data in original Fig. 4. The data points in Fig. 5 move slightly, but we do not reproduce it here because Fig. 5 is used only to explain the way of extrapolation. The correction to the open symbols in Fig. 8 is unvisibly small.

In the text, the following numerical values should be corrected: $D_c = 0.968 \pm 0.001$ at $\delta = 0$. This value of D_c clearly deviates from unity. Therefore the speculation concerning the hidden symmetry at $D = 1$ and $\delta = 0$ is withdrawn. The exponent $\nu = 1.4732 \pm 0.0004$ at $\delta = 0$. The parameter K varies from 1 to 2.6424 ± 0.0003. The system size N in eqs. (2,2), (2.3) and (2.6) should read $N/2$.

The authors are grateful to Hiroki Nakano and Tôru Sakai for pointing out our error.

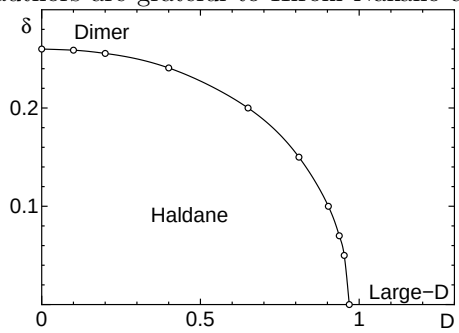

Fig. 3.

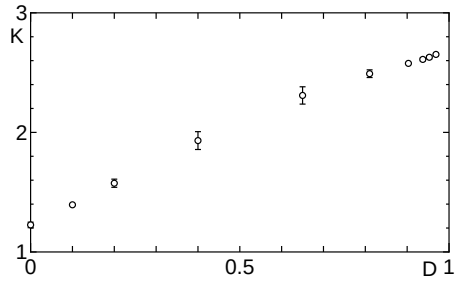

Fig. 6.

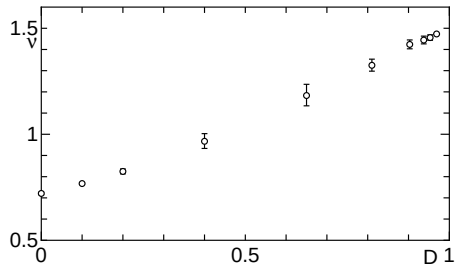

Fig. 7.

*E-mail: hida@phy.saitama-u.ac.jp