

**Erratum: Pseudo- ε expansion of six-loop renormalization-group functions
of an anisotropic cubic model
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In Table I and in the text the results for the *largest* stability matrix eigenvalue ω_1 are displayed and compared with the data of other authors for ω_1 . However, this quantity does not define the leading correction-to-scaling exponent ω . The latter is defined by the *smallest* eigenvalue ω_2 in the stable fixed point. The pseudo- ε -expansion series of correction-to-scaling exponent $\omega \equiv \omega_2$ and its numerical values in Table I should read

$$\begin{aligned}\omega_{N=3} &= -1/9\tau + 0.15414994\tau^2 - 0.038082156\tau^3 + 0.02177006\tau^4 - 0.029834963\tau^5 + 0.037418275\tau^6, \\ \omega_{N=4} &= 1/9\tau^2 - 0.045463673\tau^3 + 0.021881422\tau^4 - 0.023568550\tau^5 + 0.030121802\tau^6, \\ \omega_{N=5} &= 1/15\tau + 0.070826834\tau^2 - 0.039871738\tau^3 + 0.018875591\tau^4 - 0.017468008\tau^5 + 0.019776253\tau^6, \\ \omega_{N=\infty} &= 1/3\tau - 0.15546411\tau^2 + 0.012230983\tau^3 - 0.023160413\tau^4 + 0.021107969\tau^5 - 0.031595981\tau^6.\end{aligned}$$

TABLE I. A correction-to-scaling exponent ω of an anisotropic cubic model for different order parameter components number N .

N	Ref. 1	Ref. 2	Ref. 3	Ref. 4, ε -expansion	Ref. 4, fixed d	This study
3	0.0021	0.0081	0.0109 ± 0.0032	0.006(4)	0.010(4)	0.015 ± 0.002
4	—	—	0.0740 ± 0.0065	0.078(4)	0.076(40)	0.077 ± 0.003
5	—	—	—	—	—	0.108 ± 0.002
6	—	—	—	—	—	0.126 ± 0.002
8	—	—	0.1396 ± 0.0100	0.155(2)	0.149(66)	0.145 ± 0.002
∞	—	—	0.1787 ± 0.0050	0.202(8)	0.178(6)	0.178 ± 0.006

¹H. Kleinert, S. Thoms, and V. Schulte-Frohlinde, Phys. Rev. B **56**, 14 428 (1997).

²K. B. Varnashev, J. Phys. A **33**, 3121 (2000).

³K. B. Varnashev, Phys. Rev. B **61**, 14 660 (2000).

⁴J. M. Carmona, A. Pelissetto, and E. Vicari, Phys. Rev. B **61**, 15 136 (2000).