

## Erratum: Second-harmonic generation and linear electro-optical coefficients of BN nanotubes [Phys. Rev. B 72, 075416 (2005)]

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In Ref. 1, there was a bug in the computer program used to calculate  $\chi^{(2)}(-2\omega, \omega, \omega)$ . This mistake led to all the  $\chi^{(2)} \times (-2\omega, \omega, \omega)$  and  $r_{xyz}(0)$  values reported in Ref. 1 (including Tables I and II and Figures 1–7) being too large by a factor of 2. The correct  $\chi^{(2)}(0, 0, 0)$  and  $r_{xyz}(0)$  values are listed here in the revised Tables I and II. All the  $\chi^{(2)}(-2\omega, \omega, \omega)$  displayed in Figures 1–7 in Ref. 1 should be divided by 2. In connection with this mistake, four minor revisions in the text in Ref. 1 are also needed. In the Abstract, “up to 30 times” should be read as “up to 15 times.” On the second line of the first column of p. 4, “nearly 30 times” should be read as “nearly 15 times.” On line 10 from the bottom of the second column of p. 6, “as 30 folds” should be read as “as 15 folds.” On lines 8–9 from the bottom of the second column of p. 6, “is up to five times larger than” should be read as “is up to three times larger than.”

TABLE I. Calculated static refraction index  $n$ , second-order optical susceptibility  $\chi^{(2)}(0)$ , and linear electro-optical coefficient  $r_{abc}$  of the isolated BN sheet.

$n_a (n_c)$	$\chi_{bbb}^{(2)}, \chi_{aab}^{(2)}$ (pm/V)	$r_{bbb}, r_{aab}$ (pm/V)
2.19 (1.63)	40.7, -40.7	-1.78, 1.78

TABLE II. Calculated static refraction index  $n$ , second-order optical susceptibility  $\chi^{(2)}$  and linear electro-optical coefficient  $r_{abc}$  of the zigzag and chiral BN nanotubes.

$n_x (n_z)$	$\chi_{xzx}^{(2)}, \chi_{zxx}^{(2)}, \chi_{zzz}^{(2)}$ (pm/V)	$r_{xzx}, r_{zxx}, r_{zzz}$ (pm/V)	
(5,0)	1.88 (2.22)	0.0, 0.0, 0.0	0.0, -0.0, 0.0
(6,0)	1.89 (2.21)	14.6, 16.6, -59.0	-1.67, -1.91, 4.94
(8,0)	1.90 (2.20)	16.1, 16.2, -48.8	-1.84, -1.85, 4.17
(9,0)	1.89 (2.17)	0.0, 0.0, 0.0	0.0, 0.0, 0.0
(12,0)	1.89 (2.17)	16.8, 16.6, -40.6	-1.99, -1.98, 3.66
(13,0)	1.91 (2.18)	17.7, 17.6, -41.5	-2.04, -2.03, 3.68
(15,0)	1.89 (2.17)	17.5, 17.3, -39.4	-2.08, -2.06, 3.56
(16,0)	1.91 (2.18)	18.2, 18.3, -40.6	-2.10, -2.11, 3.59
(17,0)	1.91 (2.18)	18.1, 18.2, -39.9	-2.08, -2.10, 3.53
(20,0)	1.87 (2.16)	15.0, 13.9, -30.9	-1.84, -1.70, 2.79
(21,0)	1.90 (2.18)	17.9, 17.9, -38.3	-2.08, -2.09, 3.39
(24,0)	1.90 (2.18)	17.9, 17.8, -37.6	-2.09, -2.08, 3.33
(25,0)	1.90 (2.17)	16.9, 16.9, -36.5	-1.98, -1.98, 3.29
(27,0)	1.89 (2.16)	0.0, 0.0, 0.0	0.0, 0.0, 0.0
(12,0) @(20,0)	1.95 (2.20)	5.1, 5.2, -9.7	-0.55, -0.56, 0.83
(12,0) bundle	1.92 (2.19)	18.5, 19.2, -44.5	-2.10, -2.17, 3.87
(4,2)	1.92 (2.14)	5.8, 5.8, -30.9	-0.68, -0.68, 2.95
(6,2)	1.89 (2.15)	7.9, 7.9, -32.5	-0.96, -0.96, 3.04
(8,4)	1.89 (2.15)	8.0, 8.0, -20.3	-0.97, -0.97, 1.90
(10,5)	1.89 (2.15)	8.8, 8.8, -20.7	-1.06, -1.06, 1.94