Erratum: Shape coexistence in neutron-deficient Hg isotopes studied via lifetime measurements in ^{184,186}Hg and two-state mixing calculations [Phys. Rev. C 89, 024307 (2014)]

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Table I of our original article contains an error in the quoted uncertainty of the branching fraction for the 9_3 state in ^{184}Hg. The correct uncertainty is roughly an order of magnitude smaller due to the propagation of a decimal point error in the National Nuclear Data Center database [1]. Correspondingly, this affects the uncertainties quoted for the extracted $B(E2)$ and Q_t values in the data row for the 9_3 state: which have been corrected in the appropriate row in the new Table I, reprinted in full below.

TABLE I. Properties of the states investigated in this study. The uncertainties presented on τ_{av} represent the 1σ statistical error and include an additional systematic uncertainty which accounts for the choice of the fitting function and relativistic effects [2], typically $\leqslant 3\%$. Gamma-ray energies (E_γ) and branching fractions (b.f.) of the depopulating γ-ray transitions (corrected for internal conversion) as well as spin and parity (I^π) values are taken from Refs. [3,4]. In cases where only one depopulating transition is observed, b.f. is assumed to be equal to unity. τ_{prev} values from Refs. [5–7] are shown for comparison.

	I^π ($\hbar$)	E_γ (keV)	b.f.	τ_{av} (ps)	τ_{prev} (ps)	$B(E2)\downarrow$ (W.u.)	$\lvert Q_t\rvert$ (e b)
^{184}Hg	2_1^+	366.8	1	35.7(15)	30(7)	52(2)	4.04(8)
	4_1^+	287.0	0.959(4)	30.2(10)	32.8(34)	191(6)	6.46(11)
	6_1^+	340.1	1	8.7(4)	8.1(31)	308(15)	7.81(19)
	8_1^+	418.3	1	3.19(14)	$2.9^{+1.1}_{-1.6}$	309(13)	7.65(17)
	9_3	329.1	0.652(17)	12.1(8)		169(11)	5.62(19)
^{186}Hg	2_1^+	405.3	1	24(3)	26(4)	47(6)	3.9(2)
	4_1^+	402.7	0.93(2)	5.6(20)	13(4)	200(70)	6.6(12)
	6_1^+	356.8	1	9.1(4)	7(3)	231(10)	6.82(15)
	8_1^+	424.2	1	4.5(3)	≈4	202(14)	6.2(2)
	10_1^+	488.9	1	1.9(2)		238(25)	6.7(4)

The sentence in the discussion section quoting the affected Q_t from Table I should now read "The quadrupole moment measured here for the $9_3 \rightarrow 7_3$ transition in ^{184}Hg, $|Q_t| = 5.62(19)$ e b is similar to that of the even-spin yrast band $|Q_t| \simeq 7.7$ e b, although it is smaller than those measured in the lighter isotopes." The conclusions of the article are not affected.

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[1] J. Tuli, Evaluated Nuclear Structure Data File (ENSDF), 2012.
[2] A. Dewald, O. Möller, and P. Petkov, Prog. Part. Nucl. Phys. **67**, 786 (2012).
[3] J. Deng *et al.*, Phys. Rev. C **52**, 595 (1995).
[4] W. Ma *et al.*, Phys. Rev. C **47**, R5 (1993).
[5] D. Proetel, R. M. Diamond, and F. S. Stephens, Phys. Lett. B **48**, 102 (1974).
[6] N. Rud, D. Ward, H. Andrews, R. Graham, and J. Geiger, Phys. Rev. Lett. **31**, 1421 (1973).
[7] W. C. Ma *et al.*, Phys. Lett. B **167**, 277 (1986).

