Erratum: Particle decays of levels in $^{11,12}\text{N}$ and ^{12}O investigated with the invariant-mass method [Phys. Rev. C **100, 024306 (2019)]**

T. B. Webb, R. J. Charity , J. M. Elson, D. E. M. Hoff, C. D. Pruitt, L. G. Sobotka, K. W. Brown, J. Barney, G. Cerizza, J. Estee, G. Jhang, W. G. Lynch, J. Manfredi, P. Morfouace, C. Santamaria, S. Sweany, M. B. Tsang, T. Tsang, S. M. Wang, Y. Zhang, K. Zhu, S. A. Kuvín, D. McNeel, J. Smith, A. H. Wuosmaa, and Z. Chajecski

(Received 7 April 2020; published 17 July 2020)

DOI: [10.1103/PhysRevC.102.019904](https://doi.org/10.1103/PhysRevC.102.019904)

The original paper is found to have errors in some entries in Tables III–V. Corrected versions are given below. The results and conclusions of the original article are not affected. In Table III, the excitation energy listed for the last entry was incorrect and inconsistent with the value plotted in Fig. 9. In Table IV, the values of $E_{n\gamma}^*$ and E^* for the $3p + {}^9\text{Be}$ entry should have been identical as there is no coincident γ ray [where ground state is represented by (g.s.) and the isobaric analog state is represented by (IAS)]. In Table V, the listed value of the decay energy E_T for ^{12}O was not consistent with the value given in Table III.

TABLE III. The spin assignments, decay energies, intrinsic widths, and measured cross sections of the four observed states in ^{12}O .

J_π	E_T (MeV)	E^* (MeV)	Γ (MeV)	σ (mb)
0_1^+	1.718(15)	0	0.051(19)	1.2(2)
0_2^+ ^a	3.519(67)	1.801(67)	0.980(182)	3.3(10)
2_1^+	3.817(18)	2.099(18)	0.155(15)	2.1(5)
2_2^+	6.493(17)	4.775(17)	0.754(25)	3.5(9)
2_2^+ ^b	6.493(17)	4.775(17)	0.754(25)	4.8(12)
	7.972(40) ^c	9.984(40)	0.81(11)	0.93(11)

^aAssuming the shoulder peak is the second 0^+ .

^bAssuming the shoulder peak is a decay branch of the second 2^+ .

^cThrough the $4p + 2\alpha$ decay channel.

TABLE IV. Fitted parameters for ^{12}N states observed in the $2p + {}^{10}\text{B}$ invariant-mass spectrum of Fig. 7(b), the $2p + \alpha + {}^6\text{Li}$ spectra in Figs. 8(c) and 8(d), and the $3p + {}^9\text{Be}$ spectrum in Fig. 9.

Observed channel	Intermediate channel	J^π	$E_{n\gamma}^*$ (MeV)	E^* (MeV)	Γ (keV)	σ (mb)
$2p + {}^{10}\text{B}$		0^+	10.502(4)	12.242 (4)	<100	0.19(6)
$2p + {}^{10}\text{B}$		2^+	12.574(4)	14.314 (4)	193(26)	1.2(3)
$2p + {}^{10}\text{B}$		2^+	15.252(11)	16.992(11)	420(120)	2.18(5) ^a
$2p + \alpha + {}^6\text{Li}$	$\alpha + {}^8\text{B}_{\text{IAS}}$		18.408(66)	21.970(66)	649(49)	0.091(2)
$2p + \alpha + {}^6\text{Li}$	${}^6\text{Be}_{\text{g.s.}} + {}^6\text{Li}_{\text{IAS}}$		18.569(86)	22.131(86)	702(170)	0.15(4)
$3p + {}^9\text{Be}$			22.158(23)	22.158(23)	138(79)	2.5(6)

^aIncludes contribution from the shoulder state.

TABLE V. Decay energies for prompt $2p$ emitters in Fig. 13.

Nucleus	E_T (MeV)	Reference
${}^6\text{Be}$	1.372	[43]
${}^8\text{B}_{\text{IAS}}$	1.313	[43]
${}^{12}\text{O}_{\text{g.s.}}$	1.718(15)	This paper
${}^{12}\text{N}_{\text{IAS}}$	1.165(29)	This paper
${}^{16}\text{Ne}_{\text{g.s.}}$	1.466(20)	[7]

-
- [7] K. W. Brown, R. J. Charity, L. G. Sobotka, Z. Chajecki, L. V. Grigorenko, I. A. Egorova, Y. L. Parfenova, M. V. Zhukov, S. Bedoor, W. W. Buhro *et al.*, [Phys. Rev. Lett. **113**, 232501 \(2014\)](#).
- [43] M. Wang, G. Audi, F. Kondev, W. J. Huang, S. Naimi, and X. Xu, [Chinese Phys. C **41**, 030003 \(2017\)](#).