Erratum: Sensitivity of (d, p) Reactions to High n - p Momenta and the Consequences for Nuclear Spectroscopy Studies [Phys. Rev. Lett. 117, 162502 (2016)]

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While preparing the more extended presentation and discussion of the work of this Letter for the long publication of Ref. [1] it was found that the presented $^{26}\text{Al}(d, p)^{27}\text{Al}$ reaction differential cross sections of Fig. 3 of this Letter were in error. Specifically, the program used to calculate the proton channel distorted waves from the nonlocal nucleon optical potential was incorrect, leading to proton channel radial wave functions showing too little absorption. These effects were unphysical, affecting the differential cross sections for the calculated (d, p) transitions differently. In addition, the overlap functions used in the reactions with $1s$ state neutron transfers used an incorrect radial node count. This erratum presents a corrected Fig. 3. In general, the corrected cross sections show an enhanced sensitivity to the deuteron wave function model used and the conclusions of this Letter remain unchanged. All results presented in the subsequent long paper [1] already included these corrections and so remain unchanged.

FIG. 1. Calculated differential cross sections for the $^{26}\text{Al}(d, p)$ reaction at $E_d = 12$ MeV for the four ^{27}Al final states indicated and the different NN interaction models of Table I. The gray shaded areas cover the angular range of the experimental data reported in Ref. [2]. All calculations use unit spectroscopic factors, $C^2S = 1$. The different lines correspond to the same NN models as in Figs. 1 and 2.

[1] G. W. Bailey, N. K. Timofeyuk, and J. A. Tostevin, *Phys. Rev. C* **95**, 024603 (2017).

[2] V. Margerin, G. Lotay, P. J. Woods, M. Aliotta, G. Christian, B. Davids, T. Davinson, D. T. Doherty, J. Fallis, D. Howell, O. S. Kirsebom, D. J. Mountford, A. Rojas, C. Ruiz, and J. A. Tostevin, *Phys. Rev. Lett.* **115**, 062701 (2015).