

Erratum: High-energy neutron emission and short-range nucleon-nucleon correlations **[Phys. Rev. C 112, 034614 (2025)]**

R. Wada , Q. Hu , G. Y. Tian , X. Q. Liu, W. P. Lin, J. H. Tan , and H. Zheng 



(Received 16 May 2026; published 30 June 2026)

DOI: [10.1103/dbtn-ydmp](https://doi.org/10.1103/dbtn-ydmp)

All SrAMD simulations presented in the original article were performed using AMD/DS, not AMD/D as explained in Sec. II B. AMD/DS is incorporated not only in the diffusion process described in Sec. II B, but also in a shrinking process, described in detail in [1], for quantum branching processes. The diffusion process diffuses the wave packet centroid and tends to enhance the probability to overlap nearby other wave packets, and therefore it results in the increase of cluster formation. The shrinking process is opposite to the diffusion process and, as a result, single proton productions are slightly enhanced.

To show the differences, the experimental data are compared with the simulated results of SrAMD/DS (blue) and SrAMD/D (magenta) both with 3NC + HMT in Fig. 1. The overall shapes are very similar to each other, but the absolute yields are slightly enhanced for SrAMD/DS at the two forward angles.

Since the shapes of the simulated spectra with two codes are very similar in each other and the differences at the forward angles are small, all the discussions and conclusions made in the original text remain valid as they are.

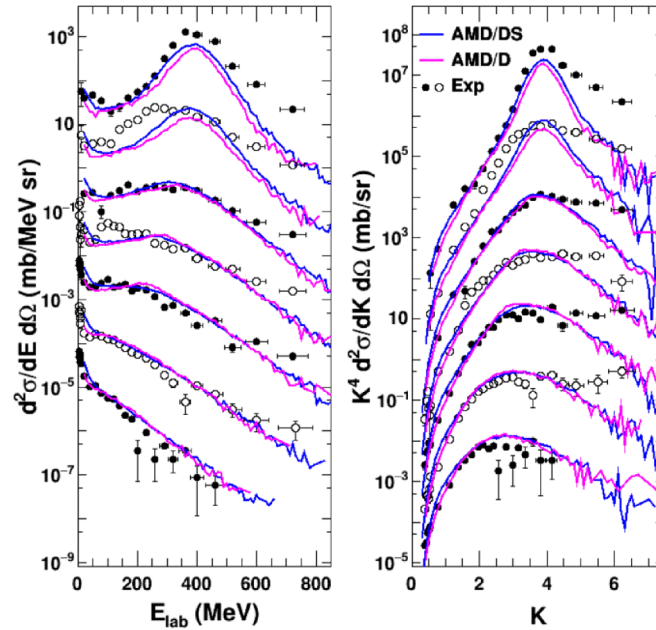


FIG. 1. Comparisons between the experimental results (symbols) for $^{40}\text{Ar} + ^{63}\text{Cu}$ at $E_{\text{inc}}/A = 400$ MeV and the simulated results for $^{40}\text{Ar} + ^{63}\text{Cu}$ with SrAMD/DS (blue curves, denoted as AMD/DS) and SrAMD/D (red, as AMD/D). Left: Neutron double differential cross sections, $d^2\sigma/dE d\Omega$, as a function of the neutron laboratory energy (E_{lab}). Right: K^4 weighted double differential cross sections, $K^4 d^2\sigma/dK d\Omega$, as a function of K , where K is the neutron momentum in the unit of the Fermi momentum with $P_{\text{FM}} = 250$ MeV/ c . In each panel, spectra at $\theta_{\text{lab}} = 5^\circ, 10^\circ, 20^\circ, 30^\circ, 40^\circ, 60^\circ$, and 80° are plotted from top to bottom.

[1] A. Ono, S. Hudan, A. Chbihi, and J. D. Frankland, Compatibility of localized wave packets and unrestricted single particle dynamics for cluster formation in nuclear collisions, *Phys. Rev. C* **66**, 014603 (2002).