Erratum: Microscopic coupled-channels calculations of nucleus-nucleus scattering including chiral three-nucleon-force effects [Phys. Rev. C **93**, 014607 (2016)]

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As reported in the Erratum [1], several errors were found in the program code for the nuclear-matter calculation reported in Ref. [2]. Changes in the G matrices in nuclear matter including the three-nucleon force (3NF) effects affect the results of subsequent applications of them to the description of nucleon-nucleus and nucleus-nucleus scatterings reported in the original paper. We present the corrected results in this Erratum.

FIG. 1. Revised version of Fig. 1(a) in the original paper. Differential cross sections of elastic and inelastic ^{16}O - ^{16}O scatterings at 70 MeV/nucleon. The solid (dashed) line corresponds to the result with (without) the 3NF effects, and the dotted (dot-dashed) line corresponds to the result of the one-step calculation with (without) the 3NF effects. The experimental data are taken from Refs. [3,4]. The inelastic cross sections are scaled by the factor shown inside the panel for clarity.

The 3NF effects become weaker except for the real part in the ^3O channel. The corrected angular distributions of the ^{16}O - ^{16}O and ^{12}C - ^{12}C scatterings are shown in Figs. 1 and 2 together with the results of the microscopic coupled-channels calculation of ^{16}O - ^{16}O and ^{12}C - ^{12}C scatterings published in the original paper. On the whole, the 3NF effects persist, improving the correspondence between the calculated and measured cross sections, although the agreement is insufficient at large angles. It has been confirmed that the 3NF effects on the total reaction cross sections are still small. Our conclusion for the 3NF effects in the nucleus-nucleus elastic and inelastic scatterings does not change qualitatively.

FIG. 2. Revised version of Fig. 2(a) in the original paper. Differential cross sections of elastic and inelastic ^{12}C - ^{12}C scatterings at 85 MeV/nucleon. The meaning of the lines is the same as in Fig. 1. The experimental data are taken from Refs. [5,6].

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