Erratum: Mechanisms for the production of hypernuclei beyond the neutron and proton drip lines [Phys. Rev. C **88**, 014611 (2013)]

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There was a technical mistake in the calculation of the separation energies of two neutrons S_{2n} and two protons S_{2p} , shown in Figs. 5 and 6, respectively. The corresponding correct figures are presented here. One can see that within our approximation

FIG. 5. Separation energy of two neutrons in hypernuclei of fluorine, molybdenum, and lead versus the neutron number. Lines and symbols give different numbers of Λ hyperons inside nuclei (see figure), according to the liquid-drop approximation (see the text). Insets demonstrate $\Delta S_{2n}(2\Lambda) = S_{2n}(\Lambda = 2) - S_{2n}(\Lambda = 0)$ and $\Delta S_{2n}(4\Lambda) = S_{2n}(\Lambda = 4) - S_{2n}(\Lambda = 0)$ values around and beyond the neutron drip lines.

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FIG. 6. Separation energy of two protons in hypernuclei containing 8, 28, and 82 neutrons versus the proton number. Lines and symbols give different numbers of Λ hyperons inside nuclei (see figure), according to the liquid-drop approximation (see the text). Insets demonstrate $\Delta S_{2p}(2\Lambda) = S_{2p}(\Lambda = 2) - S_{2p}(\Lambda = 0)$ and $\Delta S_{2p}(4\Lambda) = S_{2p}(\Lambda = 4) - S_{2p}(\Lambda = 0)$ values around and beyond the proton drip lines.

there is no large influence of the number of captured hyperons on the separation energies of neutrons and protons and their drip lines. Only a small increase is obtained, as one can see in the insets in the panels. For this reason a possibility for hypernuclei to go far beyond the drip lines should be taken with care. Still, this effect may exist because the big hypernuclei are more bound than our estimation: As one can see from Fig. 1 in the original paper, at large mass numbers the experimental data demonstrate a more rapid increasing of the hyperon separation (binding) energy than is predicted by our liquid-drop formula [Eq. (5)]. More sophisticated calculations and parametrizations of the symmetry energy around the drip lines are necessary. All other figures and equations in the original paper are correct.