Inner crust of a neutron star at the point of crystallization in a multicomponent approach
(Corrigendum)

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The original article contains two misprints, which are corrected below. These misprints do not affect any of the published numerical results, the calculations having been performed using the correct expressions.

Section 2.1. In the first paragraph, it is the proton chemical potential $\mu_p$ that never exceeds $-20$ MeV in the density and temperature domain studied in the paper, and not the proton fugacity $z_p = \exp[(\mu_p - m_p c^2)/(k_B T)]$, where $m_p$ is the proton mass, $c$ the speed of light, and $k_B$ the Boltzmann constant.

Section 2.3. Deriving the expression of the nuclear finite-size correction from the Gauss theorem for a spherical cluster of charge $Z$, mass $A$, asymmetry $I = 1 - 2Z/A$, and average density $n_0$ in a spherical Wigner-Seitz cell characterized by proton density $n_p$, the factor $3/10$ is missing with respect to Eq. (32):

$$E_{fs} = \frac{3}{10} \frac{2n_p}{n_0(1 - I)} \frac{e^2}{r_0 A^{1/3}} Z^2,$$

where $r_0 = (4\pi n_0/3)^{-1/3}$ and $e$ is the elementary charge.