Erratum: Generalization of super-transition-array methods to hot dense plasmas by using optimum independent particle reference systems [Phys. Rev. E. 65, 016403 (2002)]

G. Faussurier, Brian G. Wilson, and Mau Hsiung Chen

(Published 3 April 2002)

DOI: 10.1103/PhysRevE.65.049901 PACS number(s): 52.25.Kn, 52.25.Jm, 05.30.Fk, 99.10.+g

Some typographical errors remain after the publication of our work. In order to improve its clarity and accuracy, the corrections are itemized below:

Equation (5) should read:

$$e^{-\beta F} \equiv U_{\Xi} = \sum_{\vec{n} \in \Xi} G_{\vec{n}} e^{-\beta\{\Sigma_\alpha n_\alpha(\theta_\alpha - \mu) + \Sigma_\alpha n_\alpha(\varepsilon_\alpha - \theta_\alpha) + (1/2)\Sigma_{\alpha,\gamma} n_\alpha(n_\gamma - \delta_{\alpha,\gamma})\Delta_{\alpha\gamma}\}} \equiv \sum_{\vec{n} \in \Xi} G_{\vec{n}} e^{-\beta\{K^0_{\vec{n}} + V_{\vec{n}}\}}.$$

In Eq. (7b) F_0 should be replaced by $e^{-\beta F_0}$.

Equation (9) should read:

$$\varepsilon^{ion}_\alpha = -\varepsilon_\alpha - \sum_\gamma (\langle n_\gamma \rangle_0 - \delta_{\alpha\gamma}/g_\alpha)\Delta_{\alpha\gamma}.$$

The first line in Eq. (10) should read:

$$\langle n_\alpha \rangle_0 = g_\alpha f(\theta_\alpha).$$

