Erratum:

Thermodynamics of noninteracting bosonic gases in cubic optical lattices versus ideal homogeneous Bose gases

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Figures on pages 1550123-8 (Fig. 2) and 1550123-11 (Fig. 3) should be replaced by following figures respectively.

Fig. 2. (Color online) The condensed fraction n_0 versus reduced temperature $\tau = T/T_c^0$, as an exact solution of Eqs. (21) and (22) for different values of ν . The thick solid line corresponds to the IHB gas given by (23).

Fig. 3. (Color online) This relation between the internal energy and the thermodynamic potential, $|\Omega|$, equals exactly to unity for IHB gas, as presented by the thick solid line (see Eqs. (A.6) and (A.10)).