Corrigendum

Solvable model for pair excitation in trapped Boson gas at zero temperature
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There is a minor error in equations (23) and (24) on page 6, which does not affect the analysis, results and conclusions presented in the rest of the paper. Equation (16) on page 6 is valid for $R \in R_{in}$, as stated correctly by Wu [11]. For $r \in R_{out}$, the evolution equation for $K^0$ reads

$$i\partial_t K^0(r, R, t) = -2 \Delta_r K^0 + 2[-Z + V_e(R)]K^0.$$

Solving this equation via the Fourier transform in $r$ yields the correct form of (23):

$$\hat{K}^0(k, R, t) = \hat{f}(k, R) e^{-2i|k|^2 - Z + V_e(R)t}, \quad R \in R_{out}. \quad (23)$$

Accordingly, the correct form of (24) is

$$K^0 \sim \frac{e^{(r^2/8t)} e^{-2(|-Z + V_e(R)|t)}}{(8\pi t)^{3/2}} \int dr' \hat{f}(r', R). \quad (24)$$

These corrections do not affect any other result of the paper.