

Erratum to: Exact Results for One Dimensional Fluids Through Functional Integration

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Erratum to: J Stat Phys DOI 10.1007/s10955-016-1510-3

In the article “Exact Results for One Dimensional Fluids Through Functional Integration” by Riccardo Fantoni the Eq. (57) of Sect. 8 should read

$$C(x_i, x_j) = \frac{2}{\theta\sigma^2} w(x_i, x_j) = \prod_{k=i}^{j-1} A(|x_k - x_{k+1}|), \quad (1)$$

with $x_i \leq x_{i+1} \leq x_{i+2} \leq \dots \leq x_j$. So the interaction between particle i and particle j depends on how many particles lie between them. This is a particular *non pairwise-additive* interaction model. That is, taking $v = A\theta\sigma^2/4$, the model fluid studied in Sect. 8 and the following subsections is one with a potential energy of the following form

$$V_N = \sum_{i < j} \prod_{k=i}^{j-1} v(|x_k - x_{k+1}|), \quad (2)$$

for a configuration with $x_1 \leq x_2 \leq x_3 \leq \dots \leq x_N$.

The online version of the original article can be found under doi:[10.1007/s10955-016-1510-3](https://doi.org/10.1007/s10955-016-1510-3).

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