Corrigendum: On the calculation of x-ray scattering signals from pairwise radial distribution functions (2015 J. Phys. B: At. Mol. Opt. Phys. 48 244010)

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Published in:
Journal of Physics B: Atomic, Molecular and Optical Physics

Link to article, DOI:
[10.1088/0953-4075/49/5/059501](https://doi.org/10.1088/0953-4075/49/5/059501)

Publication date:
2016

Document Version
Peer reviewed version

[Link back to DTU Orbit](#)

Citation (APA):
Dohn, A. O., Biasin, E., Haldrup, K., Nielsen, M. M., Henriksen, N. E., & Møller, K. B. (2016). Corrigendum: On the calculation of x-ray scattering signals from pairwise radial distribution functions (2015 J. Phys. B: At. Mol. Opt. Phys. 48 244010). *Journal of Physics B: Atomic, Molecular and Optical Physics*, 49(5), [059501]. <https://doi.org/10.1088/0953-4075/49/5/059501>

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Corrigendum to: "On the Calculation of X-ray Scattering Signals from Pairwise Radial Distribution Functions"

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November 12, 2015

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When we in Eq. (20) split up the scattering signal into contributions from solvent-solvent terms, solute-solvent (cross) terms, and solute-solute terms, each atom (type) belongs to either the solvent or the solute. Hence, the scattering signal contribution from the solute-solvent (cross) terms, Eq. (20b), should read:

$$S_c(q) = 2 \sum_l^u \sum_m^v f_l(q) f_m(q) \frac{N_l N_m}{V} 4\pi \int_0^{R_{\text{box}}} r^2 [g_{l,m}(r) - 1] \frac{\sin(qr)}{qr} dr \quad (20b)$$