Erratum: X-ray cross-correlation analysis and local symmetries of disordered systems: General theory [Phys. Rev. B 82, 104207 (2010)]

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To be consistent with the general expression (43), Eqs. (44) and (45) should be replaced by

$$I^{n}(q_{j}^{\perp}, q_{j}^{z}) = 2(i)^{n} |f(q_{j})|^{2} \left[\sum_{\substack{1 \leq k_{1} \leq N, \ 1 \leq l \leq N_{s}, \\ k_{1} < k_{2} \leq N}} \sum_{\substack{1 \leq l \leq N_{s}, \\ 1 \leq m \leq N}} \cos(q_{j}^{z} Z_{k_{2}, k_{1}}^{ml}) J_{n}(q_{j}^{\perp} |\mathbf{R}_{k_{2}, k_{1}}^{\perp ml}|) e^{-in\phi_{\mathbf{R}_{k_{2}, k_{1}}^{\perp ml}}} \right] + \sum_{\substack{1 \leq l \leq N_{s}, \\ k_{2} \leq m \leq N}} \cos(q_{j}^{z} Z_{k}^{ml}) J_{n}(q_{j}^{\perp} |\mathbf{R}_{k}^{\perp ml}|) e^{-in\phi_{\mathbf{R}_{k}^{\perp ml}}} \right],$$

$$(44)$$

and

$$I^{n}(q_{j}^{\perp}, q_{j}^{z}) = -2(i)^{n+1} |f(q_{j})|^{2} \left[\sum_{\substack{1 \leq k_{1} \leq N, \\ k_{1} < k_{2} \leq N}} \sum_{\substack{1 \leq l \leq N_{s}, \\ 1 \leq m \leq N_{s}}} \sin(q_{j}^{z} Z_{k_{2}, k_{1}}^{ml}) J_{n}(q_{j}^{\perp} |\mathbf{R}_{k_{2}, k_{1}}^{\perp ml}|) e^{-in\phi_{\mathbf{R}_{k_{2}, k_{1}}^{\perp ml}}} \right] + \sum_{\substack{1 \leq k \leq N \\ l \leq m \leq N_{s}}} \sum_{\substack{1 \leq l \leq N_{s}, \\ l \leq m \leq N_{s}}} \sin(q_{j}^{z} Z_{k}^{ml}) J_{n}(q_{j}^{\perp} |\mathbf{R}_{k}^{\perp ml}|) e^{-in\phi_{\mathbf{R}_{k}^{\perp ml}}} \right],$$

$$(45)$$

respectively, where $\mathbf{R}_{k}^{\perp ml} = \mathbf{R}_{k,k}^{\perp ml}$ and $Z_{k}^{ml} = Z_{k,k}^{ml}$. In both equations, the first term corresponds to the cross terms arising from the contribution of different particles, and the second term corresponds to the contribution of individual particles. All the results and conclusions in the paper remain unchanged.