

# Errata for *Set transformations, symmetrizations and isoperimetric inequalities*

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**Proof of Lemma 3, p.147** One should replace  $u_k$  by  $u$  in the second and third lines of the inequality. One should thus read

$$\begin{aligned}
 & \int_{\mathbf{R}^{2N}} \frac{|u_k(y) - u_k(x)|^p}{|y - x|^p} \varrho_n(|y - x|) dx dy \\
 & \int_{\mathbf{R}^{2N}} \frac{\varrho_n(|y - x|)}{|y - x|^p} \left( \int_{\mathbf{R}^N} |u(y - z) - u(x - z)| \gamma_k(z) dz \right)^p dx dy \\
 & \int_{\mathbf{R}^{2N}} \frac{\varrho_n(|y - x|)}{|y - x|^p} \left( \int_{\mathbf{R}^N} |u(y - z) - u(x - z)|^p \gamma_k(z) dz \right) dx dy \\
 & = \int_{\mathbf{R}^N} \gamma_k(z) \left( \int_{\mathbf{R}^{2N}} \frac{|u(y - z) - u(x - z)|^p}{|y - x|^p} \varrho_n(|y - x|) dx dy \right) dz \\
 & = \int_{\mathbf{R}^{2N}} \frac{|u(y) - u(x)|^p}{|y - x|^p} \varrho_n(|y - x|) dx dy.
 \end{aligned}$$

(Thanks to Almut Burchard for pointing this out.)

**Proposition 8, p. 149** The inequality sign should be reversed in the first inequality. One should read

$$F(a, c) + F(b, d) \geq F(a, d) + F(b, c).$$

(Thanks to Augusto Ponce for pointing this out.)

**Theorem 3, p. 150** The inequality sign should be reversed in the first inequality. One should read

$$F(a, c) + F(b, d) \geq F(a, d) + F(b, c).$$

(Thanks to Augusto Ponce for pointing this out.)