

Erratum

Erratum to “On optimal canonical variables in the theory of ideal fluid with free surface” by P.M. Lushnikov and V.E. Zakharov [Physica D 203 (2005) 9–29]

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In the original paper, errors occurred with some bracket notation. The equation should read as follows:

$$\begin{aligned}
 H_2 = & \frac{1}{8(2\pi)^2} \int \left\{ (\mathbf{k}_1 \cdot \mathbf{k}_2)(|\mathbf{k}_1 + \mathbf{k}_2| - k_1 - k_2) - (k_1^2 k_2 + k_2^2 k_1) + \frac{1}{2} k_1 k_2 [|\mathbf{k}_1 + \mathbf{k}_3| \right. \\
 & + |\mathbf{k}_2 + \mathbf{k}_3| + |\mathbf{k}_1 + \mathbf{k}_4| + |\mathbf{k}_2 + \mathbf{k}_4|] + \frac{1}{4} k_1 k_2 [|\mathbf{k}_1 + \mathbf{k}_2| + |\mathbf{k}_3 + \mathbf{k}_4|] \Big\} \\
 & \times R_{\mathbf{k}_1} R_{\mathbf{k}_2} \xi_{\mathbf{k}_3} \xi_{\mathbf{k}_4} \delta(\mathbf{k}_1 + \mathbf{k}_2 + \mathbf{k}_3 + \mathbf{k}_4) d\mathbf{k}_1 d\mathbf{k}_2 d\mathbf{k}_3 d\mathbf{k}_4 \\
 & + \frac{1}{8(2\pi)^2} \int \left\{ -\sigma(\mathbf{k}_1 \cdot \mathbf{k}_2)(\mathbf{k}_3 \cdot \mathbf{k}_4) + \frac{1}{4} |\mathbf{k}_1 + \mathbf{k}_2|^2 B_{1+2} + k_3 B_3 |\mathbf{k}_1 + \mathbf{k}_2| \right. \\
 & \left. - \frac{1}{6} B_1 k_1 (|\mathbf{k}_2 + \mathbf{k}_3| + |\mathbf{k}_2 + \mathbf{k}_4| + |\mathbf{k}_3 + \mathbf{k}_4|) \right\} \xi_{\mathbf{k}_1} \xi_{\mathbf{k}_2} \xi_{\mathbf{k}_3} \xi_{\mathbf{k}_4} \delta(\mathbf{k}_1 + \mathbf{k}_2 + \mathbf{k}_3 + \mathbf{k}_4) d\mathbf{k}_1 d\mathbf{k}_2 d\mathbf{k}_3 d\mathbf{k}_4. \quad (82)
 \end{aligned}$$

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