

Mathematics

LETTER TO THE EDITORIAL BOARD

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In my paper

“Asymptotics of the Norming Constants of the Sturm-Liouville Problem”

published in Proceedings of the Yerevan State University, Physical and Mathematical Sciences, 2013, № 3, p. 3–11, there is an incorrectness.

Instead of the equation (1.6)

$$a_n(q, \alpha, \beta) = \frac{\pi}{2} \left[1 + O\left(\frac{1}{n^2}\right) \right] \sin^2 \alpha + \frac{\pi \cos^2 \alpha}{2[n + \delta_n(\alpha, \beta)]^2} \left[1 + O\left(\frac{1}{n^2}\right) \right]. \quad (1.6)$$

Must be written

$$a_n(q, \alpha, \beta) = \frac{\pi \sin^2 \alpha}{2} \left[1 + \frac{\mathfrak{a}_n}{n} + O\left(\frac{1}{n^2}\right) \right] + \frac{\pi \cos^2 \alpha}{2[n + \delta_n(\alpha, \beta)]^2} \left[1 + \frac{\mathfrak{a}_n}{n} + O\left(\frac{1}{n^2}\right) \right],$$

where

$$\mathfrak{a}_n = \frac{1}{2} \int_0^\pi (t - \pi) q(t) \sin 2\lambda_n t dt.$$

Similar for equation (1.7).

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