Вещественный, комплексный и функциональный анализ

Real, complex and functional analysis

ПИСЬМО В РЕДАКЦИЮ
LETTER TO THE EDITORS

In my article [1] lemma 2 and theorem 2 should be reformulated as follows.

Lemma 2. *There is a left invariant metric* ρ' *which is compatible with the topology of G such that every automorphism* $A \in \mathrm{Aut}(G)$ *is Lipschitz with respect to every left invariant metric* ρ *that is strongly equivalent to* ρ'. *Moreover, one can choose the Lipschitz constant to be*

$$L_A = \kappa_\rho \operatorname{mod} A,$$

where the constant κ_ρ *depends on the metric* ρ *only.*

Theorem 2. *Let a left invariant metric* ρ *be as in lemma 2 and the doubling condition holds for the corresponding metric measure space* (G, ρ, ν). *Under the assumptions of definition 1 let* (Ω, q, μ) *be* σ-*compact quasi-metric space with positive Radon measure* μ *and* $\Phi \in L^1(k^s\mu)$, *where* $k(u) := \kappa_\rho / \operatorname{mod} A(u)$. *Then the operator* $\mathcal{H}_{\Phi, \dot{A}}$ *is bounded on the space* $H^1(G/K)$ *and*

$$\left\| \mathcal{H}_{\Phi, \dot{A}} \right\|_{\mathcal{L}\left(H^1(G/K)\right)} \le C_\nu \|\Phi\|_{L^1(k^s\mu)}.$$

The proof of lemma 2 above is exactly the same as in [2] and the proof of theorem 2 above is exactly the same as in [1].

After these corrections, the statements of corollaries 3 and 4 of theorem 2 in [1] are correct.

A. R. Mirotin[1]

References

1. Mirotin AR. Hausdorff operators on homogeneous spaces of locally compact groups. *Journal of the Belarusian State University. Mathematics and Informatics.* 2020;2:28–35. DOI: 10.33581/2520-6508-2020-2-28-35.

2. Mirotin AR. Addendum to «Boundedness of Hausdorff operators on Hardy spaces H^1 over locally compact groups» [J. Math. Anal. Appl. 473(2019)519–533]. *Journal of Mathematical Analysis and Applications.* 2019;479(1):872–874. DOI: 10.1016/j.jmaa. 2019.06.055.

[1]*Адольф Рувимович Миротин* – доктор физико-математических наук, профессор; заведующий кафедрой математического анализа и дифференциальных уравнений факультета математики и технологий программирования Гомельского государственного университета имени Франциска Скорины.

Adolf R. Mirotin, doctor of science (physics and mathematics), full professor; head of the department of mathematical analysis and differential equations, faculty of mathematics and technologies of programming, Francisk Skorina Gomel State University.

E-mail: *amirotin@yandex.ru*