OUKA
The University of Osaka
Institutional Knowledge Archive

Title	Correction to "On the exponential decay of solutions of the wave equation with the potential function"
Author(s)	Kiyama, Susumu
Citation	Osaka Journal of Mathematics. 1968, 5(1), p. 151-151
Version Type	VoR
URL	https://doi.org/10.18910/4777
rights	
Note	

The University of Osaka Institutional Knowledge Archive : OUKA

https://ir.library.osaka-u.ac.jp/

The University of Osaka

Kiyama, S.
Osaka J. Math.
5 (1968), 151

CORRECTION TO

"ON THE EXPONENTIAL DECAY OF SOLUTIONS OF THE WAVE EQUATION WITH THE POTENTIAL FUNCTION"

SUSUMU KIYAMA

This Journal, Vol. 4 (1967), 15–35

(Received January 30, 1968)

Page

34 In [3] of References read "**12**" for "**11**."

19 In (2.5) read "$f_2(\lambda)$" for "$f_k(\lambda)$."

This alteration brings about the following:

19 In (2.6) and (2.7) read "$(q(\cdot)f_k(\lambda)+g(\cdot))f_2^{-1}(\lambda)$" for "$q(\cdot)+g(\cdot)f_k^{-1}(\lambda)$."

26 In (3.15) the right-hand side should be changed into "$(a^{(1)}(\cdot, \lambda)f_k(\lambda)+a^{(2)}(\cdot, \lambda))f_2^{-1}(\lambda)$."

29 On lines 12 and 18 from the bottom read "$f_2(\lambda)$" for "$f_1(\lambda)$."

29 In (3.22) the term in the square brackets should be replaced by "$(a^{(1)}(\cdot, \lambda)f_1(\lambda)+a^{(2)}(\cdot, \lambda))f_2^{-1}(\lambda)$."

30 The estimate for $u_1(x, \lambda)$ should be replaced by

$$|u_1(x, \lambda)| \leqslant Ce^{(\delta/2)|x|}(\|a^{(1)}(\cdot, \lambda)\|_\delta |f_1(\lambda)| + \|a^{(2)}(\cdot, \lambda)\|_\delta)|f_2^{-1}(\lambda)|$$

$$\leqslant \begin{cases} Ce^{(\delta/2)|x|}((\gamma+\mathrm{Re}\lambda)^{-2}|f_1(\lambda)| + (1+(\mu+\mathrm{Re}\lambda)^{-1}+ \\ \qquad +(\mu+\mathrm{Re}\lambda)^{-2})|\lambda|^{-2})|f_2^{-1}(\lambda)| & (\mathrm{Re}\lambda<0) \\ Ce^{(\delta/2)|x|}(|f_1(\lambda)|+|\lambda|^{-2})|f_2^{-1}(\lambda)| & (\mathrm{Re}\lambda\geqslant 0)\,. \end{cases}$$

30 On line 6 read "$f_2(\lambda)$" for "$f_1(\lambda)$."

30 On line 14 from the bottom read "$f_2(\lambda)$" for "$f_2^{-1}(\lambda)$."

Professor S.T. Kuroda also kindly pointed out the errors.