Corrigendum to

A Wave Equation with Fractional Damping

Z. Anal. Anw. 22 (2003)(3), 609 - 617

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Corrigendum

In formula (7) of this paper what was meant is

$$G_{\alpha,\beta}(t) = e^{\beta t} \int_{t}^{+\infty} e^{-\beta s} s^{-(3\alpha+2)} ds$$

instead of

$$G_{\alpha,\beta}(t) = e^{\beta t} \int_t^{+\infty} e^{-\beta s} s^{-(2\alpha+3)} ds.$$

The rest of the proof remains correct and very few minor changes occur only in the constants. However, the convergence of the integral in G(0) will restrict the range of α to $-1 < \alpha < \frac{-1}{3}$ instead of $-1 < \alpha < 0$. To overcome this restriction one can do better by choosing

$$G_{\alpha,\beta}(t) = e^{\beta t} \int_{t}^{+\infty} e^{-\beta s} s^{-(\alpha+1)} ds$$

and writing $\alpha + 1 = \frac{\alpha+1}{2} + \frac{\alpha+1}{2}$ in page 613.

Received 30.04.2004

ISSN 0232-2064 / \$ 2.50 © Heldermann Verlag Berlin

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