Hindawi Publishing Corporation
Abstract and Applied Analysis
Volume 2013, Article ID 326762, 1 page
http://dx.doi.org/10.1155/2013/326762

Erratum

Erratum to "Some Geometric Properties of the Domain of the Double Sequential Band Matrix $B(\tilde{r}, \tilde{s})$ in the Sequence Space $\ell(p)$"

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Received 25 June 2013; Accepted 15 August 2013

The purpose of this short note is to rectify the misprints in Part (iii) of Proposition 5 and its proof in the recent paper by Nergiz and Başar [1]. The reader may refer for relevant terminology to Nergiz and Başar [1].

Now, we give the corrected Part (iii) of Proposition 5 and its proof.

Proposition 5. *The modular σ_p on $\ell(\tilde{B}, p)$ satisfies the following properties with $p_k \geq 1$ for all $k \in \mathbb{N}$:*

(iii) *if $\alpha \geq 1$, then $\sigma_p(x) \geq \alpha\sigma_p(x/\alpha)$.*

Proof. Consider the modular σ_p on $\ell(\tilde{B}, p)$.

(iii) Let $\alpha \geq 1$. Then, $\alpha/\alpha^{p_k} \leq 1$ for all $p_k \geq 1$. So, we have

$$\begin{aligned} \sigma_p(x) &= \sum_k \left|s_{k-1}x_{k-1} + r_k x_k\right|^{p_k} \\ &\geq \sum_k \frac{\alpha}{\alpha^{p_k}} \left|s_{k-1}x_{k-1} + r_k x_k\right|^{p_k} = \alpha\sigma_p\left(\frac{x}{\alpha}\right), \end{aligned} \tag{10}$$

which completes the proof of Part (iii). □

We also record that the relation (19) must be corrected as follows:

$$\left|\frac{1}{k}\right| \|kx\| \leq \left\|\frac{1}{k}kx\right\| = \|x\|, \qquad \|kx\| \leq |k| \, \|x\|. \tag{19}$$

References

[1] H. Nergiz and F. Başar, "Some geometric properties of the domain of the double sequential band matrix $B(\tilde{r}, \tilde{s})$ in the sequence space $\ell(p)$," *Abstract and Applied Analysis*, vol. 2013, Article ID 421031, 7 pages, 2013.