



## Corrigendum to “Matrix transformation and application of Hausdorff measure of non-compactness on newly defined Fibo-Pascal sequence spaces” [Filomat 38:4 (2024), 1185-1196]

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**Abstract.** This corrigendum is to express the definition of the Fibo-Pascal matrix  $P^F = (p_{nk}^F)$  involving Fibonomial coefficient and its inverse  $[P^F]^{-1} = ((p^F)_{nk}^{-1})$  were given in [2]. So, the last two paragraphs of the introductory section in [1] should be replaced by the following statements.

### 1. Introduction

In this paper, motivated by the Fibo-Pascal matrix  $P^F = (p_{nk}^F)$  involving Fibonomial coefficient by

$$p_{nk}^F = \begin{cases} \binom{n}{n-k}_F, & (0 \leq k \leq n), \\ 0, & (k > n), \end{cases}$$

and its inverse  $[P^F]^{-1} = ((p^F)_{nk}^{-1})$  by

$$(p^F)_{nk}^{-1} = \begin{cases} b_{n-k+1} \binom{n}{n-k}_F, & (0 \leq k \leq n), \\ 0, & (k > n), \end{cases}$$

where  $b_n = -\sum_{i=1}^{n-1} b_i \binom{n-1}{i-1}_F$  for  $n \geq 2$  with  $b_1 = 1$ , given in [2], we introduce Fibo-Pascal sequence spaces  $P_0^F$  and  $P_c^F$ . It is proved that Fibo-Pascal sequence spaces  $P_0^F$  and  $P_c^F$  are BK-spaces that are linearly isomorphic to  $c_0$  and  $c$ , respectively. Besides, after obtaining Schauder basis and  $\alpha$ -,  $\beta$ -, and  $\gamma$ -duals, certain matrix transformations related to the spaces  $P_0^F$  and  $P_c^F$  are established. Moreover, the compactness of certain matrix operators are characterized helped by the concept of Hausdorff measure of non-compactness

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