The Title of the Demonstration Paper[☆]

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Abstract

This paper is a demonstration of the use of `elsarticle.cls`.

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1. Introduction

ntroduction

Consider the following results (that appear in, *e.g.*, [1]), but are given here only for completeness of the presentation and to make up the page.

lem:1 **Lemma 1.1.** *If*

$$A : X \overset{1:1\ onto}{\to} Y \tag{1.1a}$$

$$B : Y \overset{1:1\ onto}{\to} Z \tag{1.1b}$$

then $BA : X \overset{1:1\ onto}{\to} Z$.

thm1 **Theorem 1.1.** *If, in Lemma 1,* $X_{\|\cdot\|}$, $Y_{\|\cdot\|}$, $Z_{\|\cdot\|}$, *are B-spaces and*

$$A : X \to Y \text{ with } \|A\| < 1, \tag{1.2a}$$

$$B : Y \to Z \text{ with } \|B\| < 1, \tag{1.2b}$$

then $\|BA\| < 1$.

The assumptions are stronger than necessary[3]. We defer the proofs to the Appendices. The *Appendices* start with the command `\appendix`; appendix sections are then type-set as normal sections:

[☆] Demonstration of elsarticle.cls

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[3] Added in proof: This paper was discovered to contain a fundamental error but the second author could not be contacted to agree to issuing a correction.

A. B-spaces

ec:B-spaces

Recall that a B-space (Banach space) is a normed linear space that is complete.

References

bib:1

[1] Anonymous, A., Sample paper, J. Sample Papers, 1 (2222), pp. 1–1500.