Erratum to: A Non-distributive Extension of Complex Numbers to Higher Dimensions

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Section 4.1. In the phrase before Lemma 4.1, ‘but not injective’ should be added after ‘This function is surjective ...’. The correct sentence is:

This function is surjective but not injective due to the periodicity of the trigonometric functions.

Section 4.2. Typographic error in Eq. (4.5), a plus sign should be omitted after $|f_0|$ on the right hand side. The correct equation is:

$$f_{amur} : f_0 + \sum_{j=1}^n f_j \check{e}_j \mapsto |f_0| \prod_{j=1}^n \sqrt{1 + \frac{f_j^2}{f_0^2}} \exp \left[\arctan \left(\frac{f_j}{f_0} \right) \check{e}_j \right], \quad (4.5)$$

Section 5. Remark 5.4 The inline equation with exponentials at the end of the paragraph should have subindices 1 and 2 instead of j . The correct inline equation is:

$$\overset{o}{\varphi} = \exp \left(\frac{\pi}{2} \check{e}_1 \right) \exp \left(\frac{\pi}{2} \check{e}_2 \right). \text{ In this example, } \dots$$

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