

Reports on 122906A:

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The First Report

I write you in your request for the review of the manuscript referred to as 122906A. The following are my comments to this paper.

- 1) As far as I can understand from the Abstract, the objective of this work is supposed to find a "way to divide two vectors", namely, given two vectors, to find a procedure for obtaining the result from dividing one by the other. However, in Part 2 authors developed a procedure not to obtain such result, but an expression (8) that instead is an "operator", that is supposed to operate on something (?). This is not what was expected to obtain! (a formula), and then this is a first fail of this development.
- 2) In Part 3, equation (3.2) is incorrect. The corrected one is:

$$\hat{e}_2 = \frac{y - \frac{x \cdot y}{x^2} x}{\left| y - \frac{x \cdot y}{x^2} x \right|} \quad \hat{e}_1 = \frac{x}{x} \quad \Rightarrow \quad \hat{e}_2 \cdot \hat{e}_1 = \frac{y \cdot \frac{x}{x} - \left(\frac{x \cdot y}{x^2} \right) \left(x \cdot \frac{x}{x} \right)}{\left| y - \frac{x \cdot y}{x^2} x \right|} = \frac{(x \cdot y) \left[\frac{1}{x} - \frac{1}{x} \right]}{\left| y - \frac{x \cdot y}{x^2} x \right|} = 0$$

- 3) Expressions (3.8) and (3.9) are not correct ones in matrix algebra. So, supposed generalization under developing in this Part 3 was badly "accomplished".
- 4) Given that objective of obtaining an expression or formula for the division of two vectors in this work was not achieved, examples in Part 4 are "applications" of anything.
- 5) As a final remark, good English must be used in technical papers.

In sum, I would advise to reject this article.

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The Second Report

My comments on 122906A:

Conceptually speaking, we were expected to find in this work some demonstration and development of things like: “for two vectors A and B, whose scalar product is $A \cdot B = (\text{a scalar denoted by } \alpha)$, whose vectorial product is $A \times B = (\text{a vector } C)$ and for a given scalar denoted by β , the following operations lead to:

Scalar division: $A/B = \dots\dots\dots$

Vectorial division: $A//B = \dots\dots\dots$

General form of a vector A divided by another vector B: $A \div B = \dots\dots\dots$

General form of a scalar β divided by a vector A: $\beta \div A = \dots\dots\dots$

(or definitions as inner division or outer division, etc....)

I feel that this paper has a long way to go in both content and presentation prior to reconsideration for publication.

To conclude, I don't recommend the publication of this paper in the Journal of Vectorial Relativity.