

# Title of Paper

The first letters must be capitalised except prepositions (e.g. "Weingarten Map of the Hypersurface in Euclidean 4-Space")

Name SURNAME <sup>1</sup> , Name SURNAME <sup>2</sup> , Name SURNAME <sup>3</sup> 

## Abstract

Write your abstract here. The abstract should not exceed 250 words and should be a short summary of the article. There should be no references in the abstract. Write the ORCID's in the relevant places at the top of the tex file. ORCID's are compulsory.

## Keywords and 2020 Mathematics Subject Classification

Keywords: Keyword 1 — keyword 2 — keyword 3 Insert (Write) a minimum of three and maximum of 6 keywords or phrases. The first letter of the first keyword capitalized and the all other letters lowercase (compulsory).

MSC: \*\*\*\*\*, \*\*\*\*\*, \*\*\*\*\* Write three Mathematics Subject Classification (2020) codes (compulsory).

<sup>1</sup> Department of ..., Faculty of ..., ... University, Post Code, City, Country.

<sup>2</sup> Department of ..., Faculty of ..., ... University, Post Code, City, Country.

<sup>3</sup> Department of ..., Faculty of ..., ... University, Post Code, City, Country.

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**Article History:** Received Day Month Year; Accepted Day Month Year

## 1. Introduction (Compulsory)

Write an introduction here. Use American English.

The introduction should briefly but clearly describe your study and emphasise its importance. The literature review should be carefully reviewed and important publications should be cited. The main aim and results of the study should also be mentioned. The introduction should be written in a way that scientists working in all fields can understand.

Insert citations in order of appearance, not alphabetical order.

Double dollars should not be used to write equations:

$$x + y = z. \text{ Do not use!}$$

Equations should be written as follows:

$$x + y = z. \tag{1}$$

and

$$x \otimes y \otimes z = \begin{vmatrix} e_1 & e_2 & e_3 & e_4 \\ x_1 & x_2 & x_3 & x_4 \\ y_1 & y_2 & y_3 & y_4 \\ z_1 & z_2 & z_3 & z_4 \end{vmatrix}. \tag{2}$$

19 The following is an example of itemize within text.

20 i. You can write your equations.

ii. The following is given:

$$M^3 = \left\{ X \in E^4 \mid f : U \subset E^4 \xrightarrow{\text{diff.}} \mathbb{R}, f(X) = \text{const.}, \vec{\nabla} f|_P \neq 0, P \in M^3 \right\}. \quad (3)$$

21 iii.  $\langle x \otimes y \otimes z, t \rangle = \det(x, y, z, t)$ .

22 All abbreviations need to be defined when they are first used.

23

24 Do not number equations or mathematical expressions unless necessary.

## 25 2. Section 2

26 The titles of the sections should be written in lower case except for the first word and for proper names (e.g. "The matrix of the  
27 Weingarten map of hypersurface").

**Definition 1.** Let  $x = \sum_{i=1}^4 x_i e_i$  and  $y = \sum_{i=1}^4 y_i e_i$ , be two vectors in  $\mathbb{R}^4$ , equipped with the standard inner product given by

$$\langle x, y \rangle = x_1 y_1 + x_2 y_2 + x_3 y_3 + x_4 y_4,$$

28 where  $\{e_1, e_2, e_3, e_4\}$  is the standard basis of  $\mathbb{R}^4$ .

29 This is an example of a label of the definition Definition 1.

$$S = \begin{pmatrix} \frac{\varphi_{11}}{\varphi_{11}} & \frac{\varphi_{12}}{\sqrt{\varphi_{11}\varphi_{22}}} & \frac{\varphi_{13}}{\sqrt{\varphi_{11}\varphi_{33}}} \\ \frac{\varphi_{12}}{\sqrt{\varphi_{11}\varphi_{22}}} & \frac{\varphi_{22}}{\varphi_{22}} & \frac{\varphi_{23}}{\sqrt{\varphi_{22}\varphi_{33}}} \\ \frac{\varphi_{13}}{\sqrt{\varphi_{11}\varphi_{33}}} & \frac{\varphi_{23}}{\sqrt{\varphi_{22}\varphi_{33}}} & \frac{\varphi_{33}}{\varphi_{33}} \end{pmatrix}, \quad (4)$$

where

$$\begin{aligned} \varphi_{11} &= -\langle \phi_{uu}, N \rangle, & \varphi_{12} &= -\langle \phi_{uv}, N \rangle, & \varphi_{13} &= -\langle \phi_{uw}, N \rangle, \\ \varphi_{22} &= -\langle \phi_{vv}, N \rangle, & \varphi_{23} &= -\langle \phi_{vw}, N \rangle, & \varphi_{33} &= -\langle \phi_{ww}, N \rangle. \end{aligned}$$

30 This is an example of a label of the equation (4).

31 **Theorem 2.** Write your theorem here.

*Proof.* Write your proof here.

$$\begin{cases} x = (x_1, x_2, x_3, 0), \\ y = (y_1, y_2, y_3, 0). \end{cases}$$

32

**Example 3.** Write your example here.

$$\begin{aligned} \varphi_{11} &= -\langle \phi_{uu}, N \rangle, & \varphi_{12} &= -\langle \phi_{uv}, N \rangle, & \varphi_{13} &= -\langle \phi_{uw}, N \rangle, \\ \varphi_{22} &= -\langle \phi_{vv}, N \rangle, & \varphi_{23} &= -\langle \phi_{vw}, N \rangle, & \varphi_{33} &= -\langle \phi_{ww}, N \rangle. \end{aligned} \quad (5)$$

33 **Lemma 4.** Let .... satisfies the following conditions:

34 i.

35 ii.

36 iii.

37 for all  $X, Y \in \mathfrak{S}_0^1(M)$ .



**Fig. 1.** An image of galaxy [8]

38

The followings are the examples of inserting two or more images side by side:



(a)

(b)

**Fig. 2.** (a) An image of galaxy [8], (b) An image of galaxy [8]



(a)

(b)

(c)

**Fig. 3.** (a) An image of galaxy [8], (b) An image of galaxy [8], (c) An image of galaxy [8]

39 Tables and figures should be capitalised and referred to by the number in the text and not abbreviated (e.g. "see in Figure 1"  
40 rather than "Fig. 1" or "figure 1").

41

### 3. Section 3

42 The titles of the sections should be written in lower case except for the first word and for proper names (e.g. "The matrix of the  
43 Weingarten map of hypersurface").

### 3.1 Subsection

The titles of the subsections should be written in lower case except for the first word and for proper names (e.g. "The matrix of the Weingarten map of hypersurface").

This is an example of a table:

Table 1. Table caption.

	Title 1	Title 2	Title 3	Title 4
$\varphi_{11}$	$\frac{\varphi_{11}}{\varphi_{11}}$	$\frac{\varphi_{12}}{\varphi_{12}}$	$\frac{\varphi_{13}}{\varphi_{13}}$	$\frac{\varphi_{14}}{\varphi_{14}}$
Data	Entry 1	Entry 2	Entry 3	Entry 4
(...)	(...)	(...)	(...)	(...)

## 4. Conclusions (Compulsory)

This section is compulsory. The conclusion should contain the main take-home message to come out of your work. The conclusion should be summarizing your main finding is sufficient, with the implications for future research. The conclusion should be directly related to the main objective and endpoint of the article.

This section is compulsory. The conclusion should encapsulate the main take-home message derived from your work. Summarizing your primary findings is sufficient, along with discussing their implications for future research. The conclusion should be directly related to the main objectives and endpoints of the article.

## 5. Acknowledgements (if necessary)

This section enable you to thank all who have helped in carrying out the paper. The names of the funding organisations should be spelt out completely.

## 6. About writing references

The list of references should only include works that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished works should only be mentioned in the text. Do not use footnotes or endnotes as a substitute for a reference list.

The reference section should list all the sources you used in your article. It is your ethical and professional responsibility to reference your work adequately. Do not abbreviate last names. Use APA format.

- i. Use single parentheses for citation numbers that appear together, e.g. [2, 3], not [2], [3].
- ii. References should be written with respect for punctuation and capitalisation.
- iii. References should be written in order of appearance, not alphabetical order.

References should be written as follows:

## References

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