Paper for IOP journal

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Abstract. Abstract goes here. It should be a single paragraph of around 200 words.

AMS classification scheme numbers: AMS classification scheme numbers go here. Delete line to omit them.

Keywords: 3 to 7 keywords, that do not appear in the title

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1. Introduction

This template formats a paper to follow the guidelines for *Institute of Physics* journals. Please read those guidelines carefully. You will need to submit the source files (tex, bib, figures, etc.) to the journal, not this Rmd file.

If you need to use AMS fonts, set iopams to true in the header.

If required, include MSC codes in the msc line in the header. Otherwise that line can be deleted.

Referencing is handled using Cleveland et al. (1990) or in parentheses (Hyndman and Koehler; 2006). By default, the Harvard system is used with BibTeX (which is accepted by all IOP journals). The following table shows the suggested settings for other possible referencing methods.

Citation engine	${\tt citation_package}$	Citation style	style argument	
pandoc	default	Harvard	csl:	
			${\tt institute-of-physics-harvard.c}$	
pandoc	default	Vancouver	csl:	
			${\tt institute-of-physics-numeric.c}$	
Bibtex	natbib	Harvard	biblio-style:	
			dcu	
Bibtex	natbib	Vancouver	biblio-style:	
			unsrt	
BibLatex	biblatex	Harvard	biblio-style:	
			authoryear	
BibLatex	biblatex	Vancouver	biblio-style:	
			numeric	

The biblio-style argument will be ignored when using pandoc citations, and the csl argument will be ignored when using either Bibtex or BibLatex. The relevant csl files can be downloaded from https://www.zotero.org/styles/ so they are available locally. Alternatively, use the full URL as in the example yaml.

1.1. Subsection title

Don't forget to give each section and subsection a unique label (see Section 1 for an example).

Paragraph headings Use paragraph headings if needed.

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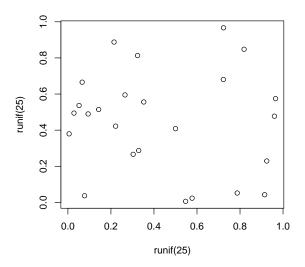


Figure 1. A meaningless scatterplot.

2. Method

2.1. Equations

Here is a displayed equation:

$$f_X(x) = \left(\frac{\alpha}{\beta}\right) \left(\frac{x}{\beta}\right)^{\alpha-1} e^{-\left(\frac{x}{\beta}\right)^{\alpha}}; \alpha, \beta, x > 0.$$

and here is an inline equation: $\sum_{i=2}^{\infty} \{\alpha_i^{\beta}\}.$

3. Results

3.1. Figures coming from R

Figure 1 is generated using an R chunk.

3.2. Tables coming from R

Tables can also be generated using R chunks, as shown in Table 2 for example.

4. Discussion

5. Conclusion

Appendix A. More things to say

This text is in the appendix.

REFERENCES 4

Table 2. Caption above table

	mpg	cyl	disp	hp
Mazda RX4	21.0	6	160	110
Mazda RX4 Wag	21.0	6	160	110
Datsun 710	22.8	4	108	93
Hornet 4 Drive	21.4	6	258	110
Hornet Sportabout	18.7	8	360	175
Valiant	18.1	6	225	105

Acknowledgments

We wish to thank...

References

Cleveland, R. B., Cleveland, W. S., McRae, J. E. and Terpenning, I. (1990). STL: A seasonal-trend decomposition procedure based on loess, *Journal of Official Statistics* **6**(1): 3–73.

Hyndman, R. J. and Koehler, A. B. (2006). Another look at measures of forecast accuracy, *International Journal of Forecasting* **22**(4): 679–688.