SAMPLE CONTRIBUTION
TO THE PROCEEDINGS OF THE CONFERENCE
"COSMOLOGY ON SMALL SCALES" 2020

First Author[1], Ifany Coauthor[2], Third A. Uthor[1]

[1] Name of the First Institution
Address, Country
first.author@e-mail.address, third.author@e-mail.address
[2] Name of the Second Institution
Address, Country
ifany.coauthor@e-mail.address

Abstract: This sample file serves as an illustration how to prepare a contribution to CSS2020 proceedings in LaTeX. The authors are kindly asked to follow this style when preparing their manuscripts.

Keywords: Friedmann equation, excessive extrapolation, cosmological model

PACS: XX.XX.Xx, YY.YY.Yy, ZZ.ZZ.Zz

1. Introduction

This document has been prepared using the provided `css2020.cls` class file. The simplest and recommended way to prepare a contribution is just to edit this `sample.tex` file. Authors are encouraged to submit papers with around 10 pages, however a strict page limit is not set.

To include EPS figures, we recommend the command `\includegraphics` (packages *epsfig*, *graphics*, or *graphicx*). See Figure 1 for an example. When preparing graphics, please keep in mind that the proceedings will be printed in grey scale and scaled down to the size of A5 paper. Although colours may be used in the online version, your graphics should keep legibility when printed in grey scale. For good results, the text appearing at graphics (description of axes in plots, etc.) should be comparable in size to the main text. Table 1 shows recommended formatting of tables.

Equations are included using the standard `equation` environment, e.g.

$$a + b = c. \tag{1}$$

For series of equations, we recommend using `eqnarray` environment.

$$a \times b = c \tag{2}$$
$$d - e = f \tag{3}$$

Figure 1: This figure was created in Linux by `xfig`.

#proc	64	128	256	512	1024
case 1					
set-up (sec)	61.0	37.7	25.7	23.2	39.5
iter (sec)	22.3	19.9	27.8	44.9	97.5
case 2					
set-up (sec)	49.5	29.0	18.4	12.6	11.0
iter (sec)	28.5	22.6	16.7	14.7	13.2

Table 1: Strong scaling for different cases.

Command (`\ref{}`) produces references to these equations in the text, such as (1), (2)–(3).

The bibliographic sources are cited by the command `\cite`. Notice the recommended style of the bibliography – an article in proceedings [1], a book [2], a journal article [3], and a Ph.D. thesis [4]. Bibliography is sorted alphabetically by surname of the first author and then by year of publication.

Acknowledgements

References

[1] López-Corredoira, M: Problems with the dark matter and dark energy hypotheses, and alternative ideas. In: M. Křížek, Y. Dumin (Eds.), *Cosmology on small scales 2018, Dark matter problem and selected controversies in cosmology*. Inst. of Math., Prague, 2018, pp. 14–29.

[2] Křížek, M., Křížek, F., Somer, L.: *Antigravity — Its origin and manifestations.* Lambert Acad. Publ., Saarbrücken, 2015.

[3] Kroupa, P.: The dark matter crisis: Falsification of the current standard model of cosmology. Publ. Astron. Soc. Australia **29** (2012), 395–433.

[4] Brezina, M.: *Robust iterative methods on unstructured meshes.* Ph.D. thesis, University of Colorado at Denver, 1997.