

Physics at the Terascale – Guidelines for Authors

Draft

Ian C. Brock and Thomas Schörner-Sadenius

15th September 2009

1 General Comments

- The book should grab the attention of the reader and not put him/her to sleep. Please try to keep a lively style. Griffiths particle physics book is a good example of the style we should aim for.
- The book will be written in British English - please use colour, flavour, etc.
- The 3rd person should be used instead of “we”.
- Brian Foster wrote a nice and comprehensive style guide for ZEUS papers – we will also follow the English grammar guidelines given in that paper.

2 Technical Aspects

There is a chapter called `example` that should contain almost all the information you need on how to format a chapter. This chapter will be distributed together with yours.

- The book will be written in \LaTeX ;
- we will use \PDFLaTeX to translate \LaTeX ;
- Wiley will do the final typesetting, so do not worry about the positions and sizes of figures, tables etc.;
- we (Wiley) will provide a style file that can be used for the individual chapters;

- please use `BIBTEX` for the references. We will provide a few examples. This makes the formatting of the references much simpler;
- use a consistent naming for figure and table cross-references

3 Text Management

We will keep all the text in a CVS repository:

`/afs/desy.de/user/b/brock/CVS/terascale_book`

If you wish to use this repository you need a DESY/CERN computer account. We will then give you permission to update the book directly.

Otherwise we make a `tar` file for each chapter that can serve as a starting point for you. As we gain experience with how to organise things, there may be updates to this package. The first version will also contain the `TEX` file for your text. This will not be included in later versions, to avoid overwriting what you have done already!

4 Compiling your text

We provide several scripts to ease the compilation of your text. At the moment they only work under Linux. It may be possible to provide Mac or Windows version (if someone knows how to write them!).

There is a script `t_book` with which you can compile your text. You can clean up all the extra files produced by `PDFTEX` by using the script `c_book`.

5 References

- Use `BIBTEX` for the references;
- Some example references are given in the example chapter

6 Figures

- Please indicate in all figures their source, so that we can clarify copyright issues;
- Wiley will provide forms that enable us to obtain permission from journals to use their figures;
- Put all figures in a `figs` subdirectory;
- Only include the filename (without extension) in the `includegraphics` command;
- Make sure numbers, text, axis labels, legend etc. are large enough;

- The book will probably be printed in black&white, so make sure your figures look OK when printed on a black&white printer;

7 Units

Units of a perpetual source of irritation, as they are often typeset with a variety of fonts and spacings. Please use the `hepunits2007` package that we have provided. Most standard units should be available there. A few examples:

- `\unit{7}{\metre}` gives 7 m
- `\unit{14}{\TeV}` gives 14 TeV

8 Cross-references

Please use the following conventions for cross-references. PART is one of `intro:physics,detector,org`; CHAPTER is the abbreviation for your chapter, e.g. `sm`, `qcd`, `det`:

- Sections: `sec:PART:CHAPTER:xxxx`
- Figures: `fig:PART:CHAPTER:xxxx`
- Tables: `tab:PART:CHAPTER:xxxx`
- Equations: `eqn:PART:CHAPTER:xxxx`