

Template for writing LHCb papers

LHCb collaboration¹.

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Abstract

Guidelines for the preparation of LHCb documents are given. This is a “living” document, that should reflect our current practice. It is expected that these guidelines are implemented for papers already before they go into the first collaboration wide review. Please contact the Editorial Board chair if you have suggestions for modifications.

1 Introduction

This is the template for typesetting LHCb notes and journal papers. It should be used for any document in LHCb [?] that is to be publicly available. The format should be used for uploading to preprint servers and only afterwards should specific typesetting required for journals or conference proceedings be applied. The main Latex file contains several options as described in the Latex comment lines.

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This template also contains the guidelines for how publications and conference reports should be written. The symbols defined in `lhcb-symbols-def.tex` are compatible with LHCb guidelines.

The front page should be adjusted according to what is written. Default versions are available for papers, conference reports and analysis notes. Just comment out what you require in the `main.tex` file.

This directory contains a file called `Makefile`. Typing `make` will apply all Latex and Bibtex commands in the correct order to produce a pdf file of the document. The default Latex compliler is `pdflatex`, which requires figures to be in pdf format. To change to plain Latex, edit line 9 of `Makefile`. Typing `make clean` will remove all temporary files generated by `(pdf)latex`.

There is also a PRL template, which is called `main-prl.tex`. You need to have REVTeX 4.1 installed [?] to compile this. Typing `make prl` produces a PRL-style PDF file. Note that this version is not meant for LHCb-wide circulation, nor for submission to the arXiv. It is just available to have a look-and-feel of the final PRL version. Typing `make count` will count the words in the main body.

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