Status, guidelines, and technical issues for "The Physics of the B-Factories"

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for the general editors

5th Physics of the B-Factories Workshop, KEK, 21st November 2011



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Outline

- Using SVN
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- Some style notes
 - equation numbers
 - labels
 - some conventions
- Working with the three bibliographies
- Resources to help you
- **6** Schedule for completion



Using SVN

- all editors should be using this system
- most contributors should be using this system
- a few late-joining members are still being added: please consult Soeren at this meeting if there are issues
- instructions are available:

```
to join: http://www.slac.stanford.edu/xorg/BFLB/bflb-new-account-help.html
for use: http://www.slac.stanford.edu/xorg/BFLB/computing-svn.html
```

- when switching from standalone work to integrated work, please be careful with commands in the source: the files are structured differently (e.g. no \end{document} in user SVN files!)
- SLAC computer retirement problem: svn switch --relocate svn+ssh://your-login@noric10.slac.stanford.edu/nfs/slac/g/bflb/svn/Book/trunk svn+ssh://your-login@yakut16.slac.stanford.edu/nfs/slac/g/bflb/svn/Book/trunk in your checked-out trunk (for established users; new users are **OK**)

Using the Hypernews

- likewise, communication on the book should be on HN by default
- http://hypernews.slac.stanford.edu/HyperNews/BFLB/top.pl
- please subscribe to sections that overlap with yours
- encourage contributors to join:
 http://hypernews.slac.stanford.edu/HyperNews/BFLB/add-member.pl
- please post to the Hypernews:
 - with any questions
 - in responde to Hypernews discussion
 - [own forum] when you make a substantial update
 - [other forum] when your own changes may be of interest there
 - for discussion with other section- and general-editors
- the subscription system can be flaky:
 - please check that you receive posts to subscribed sections
 - if not, unsubscribe and then subscribe



PBF 2011/11/21

Style (1): equation numbers

- we have decided to number equations within sections, so that (say) Eq. (238) becomes Eq. (13.5.6)
 - will make referring to / finding equations easier
 - this has been implemented in higher-level .tex files
 - section editors / contributors "do not have to do anything"
 - there will be less horizontal space on the line
 - please start citing equations in others' sections!
 - see next point about labels . . .
- correct equation-reference style:
 - "Equation (13.5.6)" at the start of a sentence
 - "Eq. (13.5.6)" elsewhere
 - spelling it out as "equation (13.5.6)" acceptable if needed
 - "Eq. (13.5.6)" but "Eqs (13.5.6) and (13.6.1)"



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Style (2): labels

Please use the *standard convention* for every label you define: (see pbf-standalone.pdf)

Labels for tables, figures, and equations should be constructed in the following tripartite form:

where

<TYPE> is one of TAB, FIG, EQ;

<SECLABEL> is the principal label of the sectional unit. taken from Tables 3 and 4: and

<NAME> is a name chosen by the contributor, which must of course be unique within that sectional unit for that kind of object.

Acceptable examples thus include

for tables:

TAB: BRECON: MODES-BABAR

TAR · VXR · SUMMARY TAB: Y5S: BRANCHINGS - for figures:

FIG: PID: CERENKOV

FTG:PHI1:JPSI-KS-BELLE FTG: XYZ: Y4260-BABAR-DTSCOVERY

- for equations:

EQ:DALITZ:BLATT-WEISSKOPF

EQ:CPT:SM-EXTENSION

EQ: TAU: SECOND-CLASS

Labels for (sub-)sections defined by contributors — at a logical level below (i.e. within) those listed in Tables 3 and 4 — should be constructed in the bipartite form

<SECLABEL>:<SUBNAME>

with some arbitrary examples being

MCPROD: RUNPERTODS-BELLE ANGULAR · TRANSVERSITY

MIXING: EPR QED:R



Style (3): some conventions

- units: please use GeV/c and GeV/c^2 etc.
- tau lepton:
 - "tau" or "tau lepton" where you'd say "electron" or "muon"
 - " τ^+ " where you'd say " e^+ " or " μ^+ "
 - avoid just " τ " in main text
- look at pbf-standalone.pdf for the style guide
 - no need to make tables small (!!)
 - other comments?
- please add Section writers: to your section, after the Editors: entry
 - we will standardise this in due course



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Working with the three bibliographies

• reminder: there are three bibliographies

```
for Belle papers: pbf-bib-belle.bib \citepBelle etc. for BaBar papers: pbf-bib-babar.bib \citepBaBar etc. for other (e.g. theory) papers: pbf-bib-other.bib \citep etc.
```

- Belle/PLB papers had been missing: now fixed (thanks Fergus)
- many duplications in the .bib files: will be fixed this coming week
- some private biblio lists, esp. from theorists ... being merged
- adding papers on your own:
 - see instructions in pbf-bib-belle.bib
 - basically: use SPIRES output, bibtex style
 - LATEX of title, etc. often needs to be fixed
 - occasionally, the tag needs to be fixed
 - be careful about duplicates (e.g. @Article and @article ...)
 - check that the citation then works in the output
- if you have bibtex experience/know-how, please fix problems yourself
- if you don't, or it doesn't work, please post problems to HN (e.g. theory-paper problem fixed o/night: thanks Gagan for the alert)

Resources to help you

- pbf-sym-table.pdf (in trunk) shows you pbf-sym.tex symbols
- pbf-Glossary.pdf; source Glossary/pbf-Glossary.tex for technical terms: things your Prof. / colleague / student need to know
- the various "Tools and methods" chapters:
 - please read those relevant to your section & refer to them
 - also, look at results sections preceding / relevant to yours

There will be changes to the sectioning after this meeting:

- removal of at least one redundant section
- reorganisation of "Tools and methods":

```
Proposed new organisation:
Current organisation:
                                        4. Multivariate methods and analysis optimization [a]

    Vertexing

                                        5. Charged particle identification [b]
 Multivariate discriminants
                                        6. Vertexing
        Analysis optimization
                                        7. B-meson reconstruction [c]
   5.2
      PID
                                        8. B-flavor tagging [b]
   5.3 Flavor tagging
                                        9. Background suppression for B-decays [b,c]
      Background discrimination
                                       10. Mixing and time-dependent analysis
 6. B-meson reconstruction
```

... etc

.. etc

7. Mixing and time-dependent analysis

Reminder: Schedule for completion

1st workshop	30-31 Oct 2009	SLAC	plan/sections
2nd workshop	17–18 May 2010	KEK	content, style
3rd workshop	01-02 Oct 2010	U. Mainz	working text in SVN
4th workshop	11-12 Apr 2011	KEK	cancelled: recovery
4th workshop	30-Jul/01-Jul 2011	Annecy	review & feedback
status review	05-07 Sep 2011	gen. eds	follow-up w section eds
text deadline	07 Nov 2011	(SVN)	partially (!) met
5th wkshp	21-22 Nov 2011	KEK	21 registrants
full review	12-16 Jan 2012	gen. eds	intensive reading/review
proofreading	early 2012		
ightarrow publisher	mid-2012		
release	end-2012		

If there are results for inclusion, going to journal after the end of this year,



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- they will be considered on a case-by-case basis
- you should know about them; so should we; please notify/discuss