

The style guide: updates, and deciding between notation conventions

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Updates/reminders (1)

- style section is being added to the PBF website, to hold links, written guide, slides, examples . . . ; key changes will be announced
- bibliography/citation plans have changed since October in response to feedback: the consensus is
 - 3 files of (corrected) SPIRES BibTeX output: Belle, BaBar, other
 - will initially be supplied by me (this week)
 - form part of standalone version of the L^AT_EX, occasionally updated
 - will be continually updated (by you!) in SVN version
- previously determined regarding figures:
 - L^AT_EX driver is pdf_latex; figure formats .pdf, .jpg, .png
 - reasonable image quality
 - note that some heritage figures will need to be included
 - we will need to be *selective* about figure inclusion
 - other rules will be formed based on early experience
- default sectioning:
 - Mon slides updated with one/two small changes (omitted by accident)
 - few small tweaks, and one large re-ordering, on the table:



Updates/reminders (2): options for Part C

NORMAL HIERARCHY

The results and their interpretation	1
12 <i>B</i> -physics	1
12.1 V_{ub} and V_{cb}	1
12.2 V_{td} and V_{ts}	1
12.3 Hadronic <i>B</i> to charm decays	1
12.4 Charmless <i>B</i> decays	1
12.5 Mixing, and EPR correlations	1
12.6 ϕ_1 (a.k.a. β)	1
12.7 ϕ_2 (a.k.a. α)	1
12.8 ϕ_3 (a.k.a. γ)	1
12.9 <i>CPT</i> violation	1
12.10 Radiative and electroweak penguin decays	1
12.11 Leptonic decays, and $B \rightarrow D^{(*)}\tau\nu$	1
12.12 Rare, exotic, and forbidden decays	1
12.13 Baryonic <i>B</i> decays	1
13 Quarkonium physics	1
13.1 Conventional charmonium	1
13.2 Exotic charmonium-like states	1
13.3 Bottomonium	1
14 Charm physics	1
14.1 <i>D</i> -mixing and <i>CP</i> violation	1
14.2 Charmed meson spectroscopy and decays	1
14.3 Charmed baryon spectroscopy and decays	1
15 Tau physics	1
16 QED and initial state radiation studies	1
17 Two-photon physics	1
18 <i>T</i> (5 <i>S</i>) physics	1
19 QCD-related physics	1
19.1 Fragmentation	1
19.2 Pentaquark searches	1
20 Global interpretation	1

INVERTED HIERARCHY

The results and their interpretation	1
12 QED and initial state radiation studies	1
13 Two-photon physics	1
14 QCD-related physics	1
14.1 Fragmentation	1
14.2 Pentaquark searches	1
15 Tau physics	1
16 Charm physics	1
16.1 <i>D</i> -mixing and <i>CP</i> violation	1
16.2 Charmed meson spectroscopy and decays	1
16.3 Charmed baryon spectroscopy and decays	1
17 Quarkonium physics	1
17.1 Conventional charmonium	1
17.2 Exotic charmonium-like states	1
17.3 Bottomonium	1
18 <i>B</i> -physics	1
18.1 V_{ub} and V_{cb}	1
18.2 V_{td} and V_{ts}	1
18.3 Hadronic <i>B</i> to charm decays	1
18.4 Charmless <i>B</i> decays	1
18.5 Mixing, and EPR correlations	1
18.6 ϕ_1 (a.k.a. β)	1
18.7 ϕ_2 (a.k.a. α)	1
18.8 ϕ_3 (a.k.a. γ)	1
18.9 <i>CPT</i> violation	1
18.10 Radiative and electroweak penguin decays	1
18.11 Leptonic decays, and $B \rightarrow D^{(*)}\tau\nu$	1
18.12 Rare, exotic, and forbidden decays	1
18.13 Baryonic <i>B</i> decays	1
19 <i>T</i> (5 <i>S</i>) physics	1
20 Global interpretation	1

MIXED HIERARCHY

The results and their interpretation	1
12 <i>B</i> -physics	1
12.1 V_{ub} and V_{cb}	1
12.2 V_{td} and V_{ts}	1
12.3 Hadronic <i>B</i> to charm decays	1
12.4 Charmless <i>B</i> decays	1
12.5 Mixing, and EPR correlations	1
12.6 ϕ_1 (a.k.a. β)	1
12.7 ϕ_2 (a.k.a. α)	1
12.8 ϕ_3 (a.k.a. γ)	1
12.9 <i>CPT</i> violation	1
12.10 Radiative and electroweak penguin decays	1
12.11 Leptonic decays, and $B \rightarrow D^{(*)}\tau\nu$	1
12.12 Rare, exotic, and forbidden decays	1
12.13 Baryonic <i>B</i> decays	1
13 QED and initial state radiation studies	1
14 Two-photon physics	1
15 QCD-related physics	1
15.1 Fragmentation	1
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16 Tau physics	1
17 Charm physics	1
17.1 <i>D</i> -mixing and <i>CP</i> violation	1
17.2 Charmed meson spectroscopy and decays	1
17.3 Charmed baryon spectroscopy and decays	1
18 Quarkonium physics	1
18.1 Conventional charmonium	1
18.2 Exotic charmonium-like states	1
18.3 Bottomonium	1
19 <i>T</i> (5 <i>S</i>) physics	1
20 Global interpretation	1



Updates/reminders (3)

- labels for chapters/sections with editors have been defined:

```
\bflbchapter{Vertexing}  
\label{VTX}  
\label{TOOLS-VTX}
```

```
\bflbchapter{Multivariate discriminants}  
\label{MVA}  
\label{TOOLS-MVA}
```

```
\bflbsection{Particle identification}  
\label{PID}  
\label{MVA-PID}  
\label{TOOLS-MVA-PID}  
\label{TOOLS-PID}
```

a convention for labelling figures, tables, and equations will be fixed,
using a chain of `fig`, `VTX` and so on




Updates/reminders (4)

Originally foreseen: a mini-bibliography for each physics section/chapter, like the PDG end-section,

- but for B-factory papers only
- and at the *beginning* of the section

as a tool during drafting; then decide whether to keep for the final version.

AUBERT	08B	PR D77	011102R
AUBERT	08Y	PR D77	111101R
ABULENCIA	07E	PRL 98	132002
ABULENCIA	06B	PRL 96	102002
AUBERT	06	PR D73	011101R
AUBERT	06E	PRL 96	052002
AUBERT,BE	06M	PR D74	071101R
GOKHROO	06	PRL 97	162002
PDG	06	JPG 33	1

Not clear to me how to implement this given the SPIRES/BibTeX  choice; will post a decision soon.

The coin toss

A reminder of our plan, agreed with both collaborations,
to decide between notation conventions for angles and other quantities:

- use one scheme; share the pain
- we will make a fair coin toss between
 - 1 $\{\phi_1, \phi_2, \phi_3, (S, C), m_{ES}, \dots\}$
 - 2 $\{\beta, \alpha, \gamma, (S, A), M_{bc}, \dots\}$
- I will toss
- Adrian will call “heads” or “tails” for scheme 2
- we will open the box

Drumroll please ...

