
5th Physics of the B Factories Meeting

Aims and plans for the workshop

Adrian Bevan



Reminder



- 7th November was the deadline imposed to have a full draft of the book in place.
 - To enable us to have time to read and integrate sections before having a final draft at the end of the year.
 - Remove duplication of text that may occur.
 - Write sections to a level where they read well as a whole and are not just stand alone entities.
 - Add adequate cross referencing to equations/sections elsewhere so that the book will be a useful tool for learning.
- To give us time to react to any last minute items we may realise are missing.
- We expect that section editors will also contribute to this proof reading stage, paying particular attention to sections of interest to them, and related to their own sections.



Aims of this meeting

- Review the status of the book:
 - As of this morning this stands at 382 pages
- Presentation and discussions on a number of chapters will be made over the next two days:
 - Hope to have the same level of activity that we've enjoyed over past meetings.
 - Use this time wisely: interact with people here to resolve any issues you are aware of.
 - Talk to us if you foresee problems in your section; **we need to know about any problems now** so that we can work with you all to resolve the sections.



-
- Facilities
 - 12 pages

 - Tools and Methods
 - 72 pages

 - Physics
 - 294 pages



- Facilities

- 12 pages

- 0 B Factories
 - 11 Detectors and Collaborations
 - 1 Data processing and MC

- Tools and Methods

- 72 pages

- Physics

- 294 pages



- Facilities

- 12 pages

- Tools and Methods

- 72 pages

- Physics

- 294 pages

10	Vertexing
5	Optimization
6	PID
9	Flavor Tagging
7	Background suppression
10	B meson reconstruction
9	Mixing and time-dependent analysis
11	ML fitting
7	Angular Analysis
9	Dalitz
4	Blind analysis
3	Systematic Errors

Comment to ALL physics contributors and editors:
Please read the tools section of the book and check to
see that this provides you with what you need.

Let the chapter editors know if there is something
missing that you need to have them add.

When appropriate consider adding cross references
back to this section (readability)



■ Facilities

- 12 pages

■ Tools and Methods

- 72 pages

■ Physics

- 294 pages

6	CKM		
	B Physics		
12	Vub and Vcb		
5	Vtd and Vts		
3	Hadronic B to charm		
19	Charmless		
14	B meson lifetime and mixing		
18	Φ_1		
10	Φ_2		
12	Φ_3		
1	CPT	23	tau
12	Radpeng	27	QED and ISR
1	Leptonic	8	$\Upsilon\Upsilon$
1	Rare	0	Y(5S)
9	B decays to Baryons		QCD
	Quarkonia	16	Fragmentation
17	Conventional	3	Pentaquarks
15	Exotic		Global Interpretation
10	Bottomonium	6	Global Fits
	Charm	0	Benchmark NP ***
15	Charm Meson Decays		
1	Rare		
17	Mixing and CPV		
27	Spectroscopy		

*** Text exists – not in SVN

Agenda



21.11.2011

JST =
California + 17 hours
CET + 8 hours
Sydney - 2 hours
Ohio + 14 hours

8:00-9:00	REGISTRATION	
9:00-9:20	Welcome	Y. Sakai
9:20-9:40	Plan of the meeting	A. Bevan
9:40-10:00	Status, guidelines, and technical issues	B. Yabsley
10:00-10:40	COFFEE	
10:40-11:00	D mixing and CP violation (S16.2)	B. Meadows, B. Golob
11:00-11:20	Fragmentation (S21.1)	R. Seidl
11:20-11:40	Rare, exotic, and forbidden decays (S14.12)	S. Robertson, Y. Kwon
11:40-12:00	Leptonic Decays (S14.11)	T. Iijima, S. Robertson
12:00-14:00	LUNCH	
14:00-14:20	Mixing and time-dependent analyses (S7)	A. Bevan
14:20-14:40	Lifetimes, mixing, EPR, CPT, Lorentz (S14.5)	B. Yabsley, S. Prell
14:40-15:00	Phi2 (S14.7)	T. Aushev
15:00-15:40	COFFEE	
15:40-16:00	Charm baryon spectroscopy and decays (S16.4)	R. Chistov
16:00-16:20	Detectors and collaborations (S2)	H. Aihara, S. Eidelman
16:20-16:40	Charged particle identification (S5.2)	S. Nishida
16:40-17:00	The CKM matrix and the KM mechanism (S13)	T. Mannel (phone)

Agenda



22.11.2011

9:00-9:20	Phi3 (S14.8)	K. Trabelsi
9:20-9:40	Vub and Vcb (S14.1)	C. Schwanda
9:40-10:00	Global CKM fits (S22.1)	M. Bona, G. Eigen; R. Itoh (phone)
10:00-10:40	COFFEE	
10:40-11:00	Hadronic B to charm decays (S14.3)	R. Kass (phone)
11:00-11:20	Charmless decays (S14.4)	F. Wilson
11:20-11:40	Phi1 (S14.6)	Y. Sakai
11:40-12:00	Tau physics (S17)	H. Hayashii
12:00-14:00	LUNCH	
14:00-14:20	Conventional charmonium (S15.1)	P. Pakhlov
14:20-14:40	Charm meson decays (S16.1)	J. Brodzicka
14:40-15:00	Charm meson spectroscopy (S16.3)	J. Brodzicka
15:00-15:40	COFFEE	
15:40-16:00	B meson reconstruction (S6)	A. Zupanc
16:00-16:20	Blind Analysis (S11)	A. Schwartz
16:20-16:40	Status of the project; future plans	S. Prell
16:40-17:00	DISCUSSION	
17:00-17:20	Radiative and EW (S14.10)	S. Playfer (phone)
17:20-17:40	Farewell notes; END OF WORKSHOP	



The coming months

- December 2011:
 - Target for completing the book.
- January 2012:
 - General editors meeting at Iowa State University (12-16th Jan) to review the book:
 - We expect to have all of the text committed to SVN by this time and will be doing a detailed review of the whole book.
- February onward:
 - Internal book review of sections and groups of sections.
 - Followed by collaboration wide review of sections and groups of sections.
- Summer 2012:
 - Minor update to the PDG 2012 where relevant.
 - Final preparations for submission.

The coming months



- December 2011:
 - Target for completing the book.

- Jan We are coming to the end of the first part of this journey: soon we will have the whole book in our hands.

- Feb Re. reviews: We owe it both to ourselves and to future generations that will use this book to make sure that it is the best it can be.

- S
 - Minor update to the PDG 2012 where relevant.
 - Final preparations for submission.

One more thing



- It is good for us to be back at KEK

.... now lets get on with some work