

Beauty 2003

Scientific Program

The conference will consist of plenary talks with no parallel sessions foreseen. Conference sessions will be held in Rangos Auditorium at the University Center on the Carnegie Mellon Campus. Coffee breaks will take place in an adjacent room. In addition, sit-down luncheons will be served on-site to allow for more discussion and scientific exchange among the conference participants.

Monday October 13, 2003

Registration

5.00 - 9.00 pm	Registration and Welcome Reception (Rangos, University Center)
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Tuesday October 14, 2003

Morning Session: CHAIR: Fred Gilman (Carnegie Mellon)

Recent Results

9.00 - 9.10	Welcome by Lincoln Wolfenstein [5] Welcome by MCS Dean Richard McCullough [5]
9.10 - 9.30	Recent Results from CLEO [17+3] Karl Ecklund (Cornell University)
9.30 - 9.55	Recent B Physics Results from DØ [20+5] Vivek Jain (BNL)
9.55 - 10.20	Recent Heavy Flavour Results from CDF [20+5] Robert Harr (Wayne State University)

10.20 - 10.45: COFFEE BREAK

Recent Results and Grid

10.45 - 11.10	Recent Results from Belle [20+5] Takeo Higuchi (KEK)
11.10 - 11.30	Recent Results from BaBar (ϕK_S^0) [17+3] Krishnamurthy Mahalaxmi (University of Tennessee)
11.30 - 12.00	CKM Matrix Elements & Fits [25+5] Hidekazu Kakuno (Tokyo Institute of Technology)
12.00 - 12.30	Grid Computing in High Energy Physics [25+5] Paul Avery (University of Florida Gainesville)

12.30 - 2.00: LUNCH (Luncheon served)

Afternoon Session: CHAIR: Bob Cahn (LBNL)

Flavour Physics and CP Violation

2.00 - 2.45	Flavour Physics in the Grande Scheme [35+10] Edward Witten (IAS Princeton)
2.45 - 3.10	CP Violation at Belle [20+5] Kenkichi Miyabayashi (Nara University)
3.10 - 3.35	CP Violation Prospects at the Tevatron [20+5] Petar Maksimovic (Johns Hopkins University)

3.35 - 4.05: COFFEE BREAK

CP Violation continued

4.05 - 4.50	Status and Future of Gamma [35+10] Jonathan Rosner (University of Chicago)
4.50 - 5.30	Towards alpha and gamma at the B Factories [35+5] Alan Watson (University of Birmingham)

Evening program:

8.00 pm: Musical Event: Concert of Starling String Quartet (Kresge Hall, CMU Campus)

Wednesday October 15, 2003

Morning Session: CHAIR: Paul Shepard (University of Pittsburgh)

Lattice and Charm

9.00 - 9.30	Lattice QCD now and in > 5 Years [25+5] Aida El-Khadra (University of Illinois Urbana-Champaign)
9.30 - 9.50	CLEO _C Status and Prospects [17+3] David Asner (University of Pittsburgh)
9.50 - 10.15	Review of Recent Results in Charm Physics [20+5] Jürgen Engelfried (Universidad Autonoma de San Luis Potosi)

10.15 - 10.45: COFFEE BREAK

***B* Production and Spectroscopy**

10.45 - 11.10	Final $b\bar{b}$ Cross Section from HERA-B [20+5] Martin zur Nedden (Humboldt University Berlin)
11.10 - 11.30	Hadronic Beauty Production at HERA [17+3] Andreas Meyer (University of Hamburg)
11.30 - 12.00	Heavy Flavour Production and Cross Sections at the Tevatron [25+5] Chunhui Chen (University of Pennsylvania)
12.00 - 12.30	<i>B</i> Reconstruction and Spectroscopy at DØ: Present & Future [25+5] Eckhard von Toerne (Kansas State University)

12.30 - 2.00: LUNCH (Luncheon served)

Afternoon Session: CHAIR: Marina Artuso (Syracuse University)

Charm at *B* Factories

2.00 - 2.20	Review of New D_S States [17+3] Jianchun Wang (Syracuse University)
2.20 - 2.45	<i>B</i> Decays to Charm and Charmonium at BaBar [20+5] Christophe Thiebaux (LLR - Ecole Polytechnique Palaiseau)
2.45 - 3.05	Charm Physics at Belle [17+3] Karim Trabelsi (University of Hawaii)

Detector and Hardware Updates

3.05 - 3.30	Status of Atlas Inner Detector [20+5] Hans-Günther Moser (MPI Munich)
3.30 - 4.00	CMS Detector Update [25+5] Homer Neal (Yale University)

4.00 - 4.30: COFFEE BREAK

Afternoon Session: (continued) CHAIR: Tom Ferguson (Carnegie Mellon)

Detector and Hardware Updates continued

4.30 - 5.00	BTeV Detector Update [25+5] David Cinabro (Wayne State University)
5.00 - 5.25	Re-optimized LHCb Detector & Tracking Performance [20+5] Gerhard Raven (NIKEHF)
5.25 - 5.45	Status of LHCb RICH & Hadron Particle Identification [17+3] Marco Adinolfi (Oxford)
5.45 - 6.05	Status of LHCb Calorimeter & Muon system plus Lepton Identification Frederic Machefert (LAL Orsay)
6.05 - 6.30	Atlas Software for B Physics [20+5] Fabrizio Parodi (Universita di Genova/INFN)

Thursday October 16, 2003

Morning Session: CHAIR: Jonathan Rosner (University of Chicago)

V_{cb} , V_{ub} and Factorization

9.00 - 9.25	Semileptonic BR's and Moments [20+5] Giuseppe Della Ricca (Universita' & INFN - Trieste)
9.25 - 9.45	Review of V_{cb} [17+3] Marina Artuso (Syracuse University)
9.45 - 10.05	Review of V_{ub} [17+3] Lawrence Gibbons (Cornell University)
10.05 - 10.35	QCD, Factorization and SCET [25+5] Iain Stewart (MIT)

10.35 - 11.00: COFFEE BREAK

B Lifetimes and Mixing

11.00 - 11.20	B Mixing and Lifetimes at the B Factories: Present & Future [17+3] Dan Marlow (Princeton)
11.20 - 11.50	B Lifetime Measurements at the Tevatron [25+5] Daria Zieminska (Indiana University)
11.50 - 12.20	B Tagging and Mixing at the Tevatron [25+5] Ting Miao (Fermilab)

Afternoon Program:

12.30 pm: Tour to Fallingwater (Boxed lunch provided)

Evening: Dinner at Seven Springs en route back

Friday October 17, 2003

Morning Session: CHAIR: Linclon Wolfenstein (Carnegie Mellon)

Rare Decays

9.00 - 9.30	Theory of Radiative and Rare Decays [25+5] Gino Isidori (INFN Frascati)
9.30 - 9.55	Radiative and Rare Decays at BaBar [20+5] Carsten Hast (SLAC)
9.55 - 10.15	Radiative Decays at Belle: Present & Future [17+3] Tom Ziegler (Princeton)
10.15 - 10.40	Spectroscopy and Rare Decays at CDF: Present and Future [20+5] Cheng-Ju Stephen Lin (Fermilab)

10.40 - 11.10: COFFEE BREAK

Beyond the Standard Model

11.10 - 11.55	Footprints of New Physics in the B System [35+10] Yuval Grossman (Technion and SLAC)
11.55 - 12.25	CP Violation beyond the Standard Model [25+5] David London (Universite de Montreal)

12.25 - 2.00: LUNCH (Luncheon served)

Afternoon Session: CHAIR: Sheldon Stone (University of Syracuse)

B Trigger at Future Experiments

2.00 - 2.30	Atlas B Physics Trigger [25+5] Simon George (Royal Holloway College London)
2.30 - 3.00	Online Event Selection at the CMS Experiment [25+5] Marcin Konecki (University of Basel)
3.00 - 3.20	LHCb Trigger: Implementation and Performance [17+3] Oliver Callot (LAL Orsay and CERN)
3.20 - 3.50	BTeV Trigger [25+5] Michael Wang (Fermilab)

3.50 - 4.20: COFFEE BREAK

Future B Physics

4.20 - 5.10	Physics of Super-Rare Decays [25+5] Benjamin Grinstein (UC San Diego)
5.10 - 5.55	B Physics in the LHC Era [35+10] Bob Cahn (LBNL)

Evening program:

6.30 pm: Conference Banquet at Carnegie Museum of Art and Natural History
(Cocktail Reception and Dinner)

Saturday October 18, 2003

Morning Session: CHAIR: Peter Schlein (UCLA)

***B* Physics at Future Hadron Machines**

9.00 - 9.30	CMS B Physics Update [25+5] Nancy Marinelli (IASA/Athens)
9.30 - 9.55	LHCb Physics Performance [20+5] Ulrich Uwer (University of Heidelberg)
9.55 - 10.25	Physics of BTeV [25+5] Brad Cox (University of Virginia)
10.25 - 10.55	Atlas B Physics Performance Update [25+5] Paula Eerola (University of Lund)

10.55 - 11.15: COFFEE BREAK

Panel Discussion

"Models and Methods: Can Theory meet the *B* Physics Challenge?"

Organized and chaired by Joel Butler (Fermilab)

Panel members: Bob Cahn (LBNL), Gino Isidori (INFN Frascati),
David London (Universite de Montreal), Amarjit Soni (BNL),
Uli Nierste (Fermilab), Lincoln Wolfenstein (Carnegie Mellon)

11.15 - 1.15	Introduction [5] Opening Statements by Panelists [10 min each] Panel discussion: [30] How might the new physics unfold? What progress will be made towards a theory of flavour? Additional questions from the audience [25]
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End of Conference