

SuperB Physics Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Tuesday, 14 April 2009 14:00 (10 minutes)

Presenter: Prof. HARRISON, Paul (University of warwick)

Session Classification: Plenary Session 1: Welcome and Overview

Contribution ID: 1

Type: **not specified**

Status Report on the SuperB Project

Tuesday, 14 April 2009 14:10 (45 minutes)

Presenter: GIORGI, Marcello (PI)

Session Classification: Plenary Session 1: Welcome and Overview

Contribution ID: 2

Type: **not specified**

Goals and organisation of the workshop

Tuesday, 14 April 2009 14:55 (50 minutes)

Presenter: Prof. STOCCHI, Achille (LAL - Univeriste Paris Sud and IN2p3/CNRS)

Session Classification: Plenary Session 1: Welcome and Overview

Contribution ID: 3

Type: **not specified**

WG1 Report

Friday, 17 April 2009 09:00 (20 minutes)

Presenter: Dr MANNEL, Thomas (Siegen University)

Session Classification: Plenary Session 4: Progress Reports From Vertical Working Groups

Contribution ID: 4

Type: **not specified**

WG2 Report

Friday, 17 April 2009 09:20 (20 minutes)

Presenter: Mr HURTH, Tobias Hurth (CERN)

Session Classification: Plenary Session 4: Progress Reports From Vertical Working Groups

Contribution ID: 5

Type: **not specified**

WG3/WG4 Report

Friday, 17 April 2009 09:40 (20 minutes)

Presenter: Dr LUSIANI, Alberto (Scuola Normale Superiore di Pisa)

Session Classification: Plenary Session 4: Progress Reports From Vertical Working Groups

Contribution ID: 6

Type: **not specified**

WG5 Report

Friday, 17 April 2009 10:00 (20 minutes)

Presenter: Prof. MEADOWS, Brian (University of Cincinnati)

Session Classification: Plenary Session 4: Progress Reports From Vertical Working Groups

Contribution ID: 7

Type: **not specified**

WG6 Report

Friday, 17 April 2009 10:20 (20 minutes)

Presenter: FACCINI, Riccardo (RM1)

Session Classification: Plenary Session 4: Progress Reports From Vertical Working Groups

Contribution ID: 8

Type: **not specified**

WGA Report

Friday, 17 April 2009 11:10 (20 minutes)

Presenter: Dr KOU, Emi Kou (LAL/IN2P3)

Session Classification: Plenary Session 5: Progress Reports from Horizontal Working Groups and Closeout

Contribution ID: 9

Type: **not specified**

WGB Report

Friday, 17 April 2009 11:30 (20 minutes)

Presenter: Dr HAISCH, Ulrich (University of Zuerich)

Session Classification: Plenary Session 5: Progress Reports from Horizontal Working Groups and Closeout

Contribution ID: **10**

Type: **not specified**

WGC Report

Friday, 17 April 2009 11:50 (20 minutes)

Presenter: Dr BROWN, David (Lawrence Berkeley National Lab)

Session Classification: Plenary Session 5: Progress Reports from Horizontal Working Groups and Closeout

Contribution ID: 12

Type: **not specified**

Workshop Close-out

Friday, 17 April 2009 12:10 (20 minutes)

Presenters: Prof. STOCCHI, Achille (LAL - Univeriste Paris Sud and IN2p3/CNRS); Dr BEVAN, Adrian (Queen Mary); Dr BROWN, David (Lawrence Berkeley National Lab); CIUCHINI, Marco (RM3)

Session Classification: Plenary Session 5: Progress Reports from Horizontal Working Groups and Closeout

Contribution ID: 13

Type: **not specified**

Flavour physics in the Littlest Higgs with T-parity

Wednesday, 15 April 2009 09:00 (25 minutes)

Presenter: DULING, Björn (Technische Universitaet Muenchen)

Session Classification: WGA: Phenomenology

Contribution ID: 15

Type: **not specified**

Flavour Physics in a Randall-Sundrum Model with Custodial Protection

Wednesday, 15 April 2009 09:30 (25 minutes)

Presenter: GEMMLER, Katrin (Technische Universitaet Muenchen)

Session Classification: WGA: Phenomenology

Contribution ID: **16**

Type: **not specified**

TDR outline

Wednesday, 15 April 2009 14:00 (10 minutes)

Session Classification: WGA: Phenomenology

Contribution ID: 17

Type: **not specified**

The scale of new physics from the unitarity triangle fit

Wednesday, 15 April 2009 14:10 (20 minutes)

Presenter: BONA, Marcella (CERN)

Session Classification: WGA: Phenomenology

Contribution ID: **18**

Type: **not specified**

taus and Bs vs mus and Ks: where to look for new physics?

Wednesday, 15 April 2009 14:40 (20 minutes)

Presenter: VIVES, Oscar (University of Valencia)

Session Classification: WGA: Phenomenology

Contribution ID: **19**

Type: **not specified**

Correlations B/Bs/tau - informal discussion

Wednesday, 15 April 2009 15:10 (20 minutes)

Session Classification: WGA: Phenomenology

Contribution ID: 20

Type: **not specified**

CP Violation in B(s) Mixing in the SUSY SU(5) GUT with Right-handed Neutrinos

Thursday, 16 April 2009 14:00 (20 minutes)

Presenter: SHIMIZU, Yasuhiro (Tokyo University)

Session Classification: WGA: Phenomenology

Contribution ID: 21

Type: **not specified**

Hierarchical Squarks and B Physics

Thursday, 16 April 2009 14:20 (20 minutes)

Presenter: NARDECCHIA, Marco (SISSA/ISAS, Trieste)

Session Classification: WGA: Phenomenology

Contribution ID: 22

Type: **not specified**

SUSY breaking models

Thursday, 16 April 2009 14:40 (20 minutes)

Presenter: JAGER, Sebastian (Technische Universitaet Muenchen)

Session Classification: WGA: Phenomenology

Contribution ID: 23

Type: **not specified**

Generalized MFV

Wednesday, 15 April 2009 10:00 (20 minutes)

Presenter: ZUPAN, Jure (Jozef Stefan Institute, Ljubljana)

Session Classification: WGA: Phenomenology

Contribution ID: 24

Type: **not specified**

discussion

Thursday, 16 April 2009 15:00 (30 minutes)

Session Classification: WGA: Phenomenology

Contribution ID: 25

Type: **not specified**

Spectroscopy at Panda

Thursday, 16 April 2009 09:00 (45 minutes)

Presenter: BETTONI, Diego (Univ. and INFN Ferrara)

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: 26

Type: **not specified**

New Spectroscopy@B-Factories: status and perspectives

Thursday, 16 April 2009 09:45 (40 minutes)

Presenters: CIBINETTO, Gianluigi (FE); Dr CIBINETTO, Gianluigi (ifn Ferrara)

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: 27

Type: **not specified**

discussion

Thursday, 16 April 2009 11:25 (30 minutes)

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: 28

Type: **not specified**

Upsilon radiative decays, spectroscopy and a light pseudoscalar Higgs in the NMSSM

Thursday, 16 April 2009 11:55 (25 minutes)

Presenter: SANCHIS-LOZANO, Migu Angel

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: 29

Type: **not specified**

Search for decoherence and CPT violation effects in the B meson system at a B-factory

Thursday, 16 April 2009 12:20 (25 minutes)

Presenter: DI DOMENICO, Antonio

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: **30**

Type: **not specified**

Sin(2beta) in penguin modes: reivew of experimental situation

Tuesday, 14 April 2009 16:15 (30 minutes)

Presenter: LAZZARO, Alfio (MI)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 31

Type: **not specified**

Sin(2beta) in penguin modes: reivew of theoretical situation

Tuesday, 14 April 2009 16:45 (30 minutes)

Presenter: MARTIN JUNG

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 32

Type: **not specified**

Sin(2beta) in penguin modes: limiting factors in time-dependent Dalitz plot analyses

Tuesday, 14 April 2009 17:15 (30 minutes)

Presenter: Mr PEREZ, Alejandro (LPNHEP)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 33

Type: **not specified**

Sin(2beta) in the golden modes: review of experimental situation

Thursday, 16 April 2009 12:00 (30 minutes)

Presenter: Dr CHENG, Chih-hsiang (Caltech)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 34

Type: **not specified**

Sin(2beta) in the golden modes: review of theoretical situation

Wednesday, 15 April 2009 11:30 (30 minutes)

Presenter: Dr MANNEL, Thomas (Siegen University)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 36

Type: **not specified**

Is the Unitarity Triangle Right?

Thursday, 16 April 2009 16:00 (20 minutes)

Presenter: Prof. HARRISON, Paul (University of warwick)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 37

Type: **not specified**

Potential precision in alpha at SuperB

Thursday, 16 April 2009 16:20 (30 minutes)

Presenters: Dr BEVAN, Adrian (Queen Mary); Dr GERSHON, Tim (University of Warwick)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: **38**

Type: **not specified**

Theoretical motivation for DeltaGamma_d and DeltaGamma_s

Wednesday, 15 April 2009 11:00 (30 minutes)

Presenter: ALEXANDER LENZ

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 39

Type: **not specified**

SuperB precision on DGd and DGs

Thursday, 16 April 2009 11:00 (30 minutes)

Presenter: RENGA, Francesco (RM1)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 41

Type: **not specified**

Possible SuperB precision on Dmd

Thursday, 16 April 2009 11:30 (30 minutes)

Presenter: Mr ASGEIRSSON, David (University of British Columbia)

Session Classification: WG1: New Physics in Mixing and CP Violation

Contribution ID: 43

Type: **not specified**

Semileptonic Decays (theory)

Tuesday, 14 April 2009 16:15 (30 minutes)

Presenter: T. MANNEL

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 44

Type: **not specified**

Semileptonic Decays (theory)

Tuesday, 14 April 2009 16:45 (30 minutes)

Presenter: F. TACKMANN

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 45

Type: **not specified**

Semileptonic Decays (Experiment)

Tuesday, 14 April 2009 17:15 (30 minutes)

Presenter: M. ROTONDO

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 46

Type: **not specified**

B- \rightarrow k ν ν (Theory)

Thursday, 16 April 2009 09:00 (30 minutes)

Presenter: STRAUB

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 47

Type: **not specified**

B- \rightarrow k ν ν (experiment)

Thursday, 16 April 2009 09:30 (30 minutes)

Presenter: F. RENGA

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 48

Type: **not specified**

$b \rightarrow s \ell \ell$ exclusive (theory)

Thursday, 16 April 2009 11:00 (30 minutes)

Presenter: Q. MATIAS

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 49

Type: **not specified**

B \rightarrow l ν (theory)

Thursday, 16 April 2009 11:30 (30 minutes)

Presenter: P. PARADISI

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 50

Type: **not specified**

$B \rightarrow l \nu + B \rightarrow \mu \mu$ (experiment)

Thursday, 16 April 2009 12:00 (30 minutes)

Presenter: S. ROBERTSON

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 51

Type: **not specified**

Bd- \rightarrow mu mu (theory)

Wednesday, 15 April 2009 11:00 (30 minutes)

Presenter: M. GORBAHN

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 52

Type: **not specified**

$b \rightarrow s \gamma$ (theory)

Wednesday, 15 April 2009 11:30 (30 minutes)

Presenter: T. HURTH

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 53

Type: **not specified**

b \rightarrow s gamma (experiment)

Wednesday, 15 April 2009 12:00 (30 minutes)

Presenter: J. WALSH

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 54

Type: **not specified**

Gamma angle determination

Wednesday, 15 April 2009 09:00 (30 minutes)

Presenter: J. ZUPAN

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 55

Type: **not specified**

Inclusive $b \rightarrow s \ell \ell$ (theory)

Wednesday, 15 April 2009 09:30 (30 minutes)

Presenter: T. HUBER

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 56

Type: **not specified**

inclusive+exclusive $b \rightarrow s \ell \ell$ (experiment)

Wednesday, 15 April 2009 10:00 (30 minutes)

Presenter: G. EIGEN

Session Classification: WG2: Rare, Radiative and semi-leptonic decays

Contribution ID: 57

Type: **not specified**

SuperB simulation overview, svt + tracking

Wednesday, 15 April 2009 09:00 (10 minutes)

Presenter: Dr BROWN, David (Lawrence Berkeley National Lab)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: 58

Type: **not specified**

Dch and dE/dx in fastsim

Wednesday, 15 April 2009 09:10 (10 minutes)

Presenter: RAMA, Matteo (LNF)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: 59

Type: **not specified**

Tau EDM and g-2 observables for tau pairs produced with polarized beams

Thursday, 16 April 2009 16:30 (30 minutes)

Presenter: Prof. GONZALEZ-SPRINBERG, Gabriel (Universidad de la República, Montevideo, Uruguay)

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: **60**

Type: **not specified**

SUSY CP phases at colliders (summary on behalf of the Bartl group)

Tuesday, 14 April 2009 16:45 (20 minutes)

Presenter: VIVES, Oscar (University of Valencia)

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: **61**

Type: **not specified**

LFV in tau -> l f0(980) in constrained MSSM

Tuesday, 14 April 2009 16:15 (30 minutes)

Presenter: Dr RODRÍGUEZ SÁNCHEZ, Ana María (Universidad Autonoma de Madrid)

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: 62

Type: **not specified**

Flavour and CP in general MSSM: implications for tau physics

Wednesday, 15 April 2009 11:00 (30 minutes)

Presenter: VIVES, Oscar (University of Valencia)

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: **63**

Type: **not specified**

Tau LFV in SUSY see-saw models and SUSY GUTs

Wednesday, 15 April 2009 11:30 (30 minutes)

Presenter: P. PARADISI

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: **64**

Type: **not specified**

SuperB tau physics studies: status and plans

Thursday, 16 April 2009 16:00 (30 minutes)

Presenter: Dr LUSIANI, Alberto (Scuola Normale Superiore di Pisa)

Session Classification: WG3: Lepton Flavour Violation and New Physics Models + WG4: CP and T Violation with Polarized Taus

Contribution ID: 65

Type: **not specified**

Dirc in Fastsim

Wednesday, 15 April 2009 09:20 (10 minutes)

Presenter: Prof. MEADOWS, Brian (University of Cincinnati)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: **66**

Type: **not specified**

Forward PID in FastSim

Wednesday, 15 April 2009 09:30 (10 minutes)

Presenter: Dr ARNAUD, NICOLAS (LAL ORSAY CNRS-IN2P3)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: 67

Type: **not specified**

Calorimetry in FastSim

Wednesday, 15 April 2009 09:40 (10 minutes)

Presenter: Dr CHENG, Chih-hsiang (Caltech)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: **68**

Type: **not specified**

IFR in FastSim

Wednesday, 15 April 2009 09:50 (10 minutes)

Presenter: Dr ROTONDO, marcello (INFN Padova)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: **69**

Type: **not specified**

Background mixing and Beta interface of FastSim

Wednesday, 15 April 2009 10:00 (10 minutes)

Presenter: Dr SIMI, Gabriele (UMD)

Session Classification: WGC: Tools: Simulation overview

Contribution ID: 70

Type: **not specified**

Mixing and CPV in the D0 System - Current Situation and Prospects for Super B

Tuesday, 14 April 2009 16:40 (25 minutes)

Presenter: Prof. MEADOWS, Brian (University of Cincinnati)

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: 71

Type: **not specified**

The Charm of the Littlest Higgs with T-Parity - CP-Violation in D - anti-D Oscillations

Tuesday, 14 April 2009 16:15 (25 minutes)

Presenter: Ms BLANKE, Monika (Technische Universitaet Muenchen)

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: 72

Type: **not specified**

status of tagging

Thursday, 16 April 2009 14:00 (15 minutes)

Presenter: Dr LOMBARDO, Vincenzo (INFN Milano)

Session Classification: WGC: Tools

Contribution ID: 73

Type: **not specified**

PID selectors

Thursday, 16 April 2009 14:15 (10 minutes)

Presenter: Dr ARNAUD, NICOLAS (LAL ORSAY CNRS-IN2P3)

Session Classification: WGC: Tools

Contribution ID: 74

Type: **not specified**

Progress on tau physics tools for SuperB

Thursday, 16 April 2009 14:25 (10 minutes)

Presenter: Dr LUSIANI, Alberto (Scuola Normale Superiore di Pisa)

Session Classification: WGC: Tools

Contribution ID: 75

Type: **not specified**

Simulation needs of Physics groups

Thursday, 16 April 2009 15:05 (45 minutes)

Session Classification: WGC: Tools

Contribution ID: 76

Type: **not specified**

T-odd correlations

Tuesday, 14 April 2009 17:05 (25 minutes)

Presenter: ANTIMO PALANO (INFN, Bari University)

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: 77

Type: **not specified**

Opening remarks

Wednesday, 15 April 2009 11:00 (10 minutes)

Presenter: Prof. MEADOWS, Brian (University of Cincinnati)

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: 78

Type: **not specified**

Some comments

Wednesday, 15 April 2009 11:10 (10 minutes)

Presenters: Prof. BIGI, Ikaros (U. Notre Dame); BLANKE, Monika (Technische Universitaet Muenchen)

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: 79

Type: **not specified**

Draft proceedings from Valencia

Wednesday, 15 April 2009 11:20 (20 minutes)

Presenter: GROUP

Session Classification: WG5: Charm Mixing and CP Violation in D decays

Contribution ID: **80**

Type: **not specified**

Effects of chiral symmetry breaking in B

Thursday, 16 April 2009 11:00 (25 minutes)

Presenter: Prof. BUGG, David (Queen Mary, University of London, UK)

Session Classification: WG6: Spectroscopy, Exotica and Other Physics

Contribution ID: **82**

Type: **not specified**

Charm and bottom physics from lattice QCD”

Presenter: CHRISTINE DAVIES

Contribution ID: **83**

Type: **not specified**

New Physics in the flavour sector

Wednesday, 15 April 2009 16:00 (45 minutes)

Presenter: SILVESTRINI, Luca (INFN - Rome)

Session Classification: Plenary Session 2: Theory Talk and Discussion

Contribution ID: **84**

Type: **not specified**

DGWG

Thursday, 16 April 2009 14:55 (10 minutes)

Presenter: Prof. STOCCHI, Achille (LAL - Univeriste Paris Sud and IN2p3/CNRS)

Session Classification: WGC: Tools

Contribution ID: **86**

Type: **not specified**

Charm and Bottom Physics from Lattice QCD

Thursday, 16 April 2009 17:00 (45 minutes)

Presenter: Prof. DAVIES, Christine (Univ. of Glasgow)

Session Classification: Plenary 3: Lattice QCD

Contribution ID: **87**

Type: **not specified**

Multiple vertex study

Thursday, 16 April 2009 14:35 (20 minutes)

Session Classification: WGC: Tools

Contribution ID: **88**

Type: **not specified**

Closing Remarks

Friday, 17 April 2009 12:30 (5 minutes)

Presenter: Prof. HARRISON, Paul (University of warwick)

Session Classification: Plenary Session 5: Progress Reports from Horizontal Working Groups and Closeout