

# **SuperB Physics Workshop**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Introduction

*Monday, 30 November 2009 09:30 (30 minutes)*

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) I

Contribution ID: 1

Type: **not specified**

## **Aim of this Workshop**

*Monday, 30 November 2009 10:00 (15 minutes)*

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) I

Contribution ID: 2

Type: **not specified**

## Summary of the Physics Worskhop

*Friday, 4 December 2009 14:30 (40 minutes)*

**Session Classification:** Plenary (common to SuperB Coll. meeting)

Contribution ID: 3

Type: **not specified**

## **Review on Dark Forces - Role of KLOE II and SuperB**

*Monday, 30 November 2009 10:15 (30 minutes)*

**Presenter:** BOSSI, Fabio (LNF)

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) I

Contribution ID: 4

Type: **not specified**

## **Lattice QCD in the SuperB era**

*Tuesday, 1 December 2009 11:15 (40 minutes)*

**Presenter:** VITTORIO LUBICZ (ROMA III)

**Session Classification:** Plenary (common to SuperB Coll. meeting)

Contribution ID: 5

Type: **not specified**

## **Y(nS) to invisible potentialities at SuperB**

*Monday, 30 November 2009 16:30 (20 minutes)*

**Presenter:** Dr SEKULA, Stephen (The Ohio State University)

**Session Classification:** Parallel II - Spectroscopy

Contribution ID: 6

Type: **not specified**

## **Dark Forces searches at SuperB**

*Monday, 30 November 2009 16:50 (20 minutes)*

**Presenter:** GRAHAM, Matt

**Session Classification:** Parallel II - Spectroscopy



Contribution ID: 7

Type: **not specified**

## Status of simulations

*Wednesday, 2 December 2009 17:10 (20 minutes)*

**Presenter:** SANTORO, Valentina (INFN Ferrara)

**Session Classification:** Parallel VI - Spectroscopy

Contribution ID: 8

Type: **not specified**

## **potentialities of a SuperB energy scan**

*Monday, 30 November 2009 17:30 (20 minutes)*

**Presenter:** RENGA, Francesco (RM1)

**Session Classification:** Parallel II - Spectroscopy

Contribution ID: 9

Type: **not specified**

## **Overview of theory requirements to experiments on new spectroscopy**

*Wednesday, 2 December 2009 17:30 (20 minutes)*

**Presenter:** PICCININI, Fulvio (PV)

**Session Classification:** Parallel VI - Spectroscopy

Contribution ID: **10**

Type: **not specified**

## **Electromagnetic corrections in bsll and comparsion with experiment**

*Thursday, 3 December 2009 09:00 (30 minutes)*

**Presenter:** LUNGHI, Enrico (Indiana University)

**Session Classification:** Parallel VII - WG II

Contribution ID: 11

Type: **not specified**

## **Spectroscopy SuperB potentialities in view of recent BF experience**

*Wednesday, 2 December 2009 16:30 (20 minutes)*

**Presenter:** PATRIGNANI, Claudia (GE)

**Session Classification:** Parallel VI - Spectroscopy

Contribution ID: 12

Type: **not specified**

## **ideas on superB potentialities**

*Wednesday, 2 December 2009 16:50 (20 minutes)*

**Presenter:** MUSSA, Roberto (TO)

**Session Classification:** Parallel VI - Spectroscopy

Contribution ID: 13

Type: **not specified**

## **Rare decay modes $b \rightarrow d \gamma$ and $b \rightarrow d \ell \ell$**

*Thursday, 3 December 2009 09:30 (15 minutes)*

**Presenter:** Dr HUBER, Tobias (Uni Siegen)

**Session Classification:** Parallel VII - WG II

Contribution ID: 14

Type: **not specified**

## **Constraints and experimental prospects on the charged Higgs boson in the MSSM**

*Tuesday, 1 December 2009 16:30 (30 minutes)*

**Presenter:** Mr STÅL, Oscar (Uppsala University)

**Session Classification:** Parallel IV - WG II



Contribution ID: 15

Type: **not specified**

## Rare decays in flavour models

*Tuesday, 1 December 2009 17:00 (30 minutes)*

**Presenter:** STRAUB, David (Technische Universität München)

**Session Classification:** Parallel IV - WG II

Contribution ID: 16

Type: **not specified**

## **Resummation of tan-beta-enhanced susy loop corrections in rare decays**

*Tuesday, 1 December 2009 17:30 (30 minutes)*

**Presenter:** Mr HOFER, Lars (Karlsruhe Institute of Technology)

**Session Classification:** Parallel IV - WG II

Contribution ID: 17

Type: **not specified**

## Experimental status of $B \rightarrow K \nu \nu$

*Tuesday, 1 December 2009 18:30 (30 minutes)*

**Presenters:** PEREZ, Alejandro (LAL); MANONI, Elisa (PG)

**Session Classification:** Parallel IV - WG II

Contribution ID: **18**

Type: **not specified**

## **Effects of right-handed currents on the determinations of $V_{ub}$ and $V_{cb}$**

*Tuesday, 1 December 2009 18:00 (30 minutes)*

**Presenter:** CRIVELLIN, Andreas (TTP Karlsruhe)

**Session Classification:** Parallel IV - WG II

Contribution ID: 21

Type: **not specified**

## **Discussion on CP violation in Hadronic tau decays**

*Wednesday, 2 December 2009 15:00 (30 minutes)*

**Presenter:** OSCAR VIVES

**Session Classification:** Parallel V - TAU

Contribution ID: 22

Type: **not specified**

## **How SuperB can probe $R$ -parity violation through $\tau$ and $B$ meson decays**

*Wednesday, 2 December 2009 14:30 (30 minutes)*

**Presenter:** BEN O'LEARY

**Session Classification:** Parallel V - TAU

Contribution ID: 23

Type: **not specified**

## **Theory Predictions for the CP Asymmetry in the golden modes**

*Monday, 30 November 2009 16:30 (30 minutes)*

**Presenter:** Dr JUNG, Martin (Instituto de Física Corpuscular (IFIC), Valencia)

**Session Classification:** Parallel II - WG I

Contribution ID: 24

Type: **not specified**

## **B->phiK0**

*Monday, 30 November 2009 17:00 (20 minutes)*

**Presenter:** Dr NERI, Nicola (Universita' di Pisa & INFN)

**Session Classification:** Parallel II - WG I



Contribution ID: 25

Type: **not specified**

## White Paper Discussion

*Monday, 30 November 2009 17:20 (30 minutes)*

**Presenters:** Dr BEVAN, Adrian (Queen Mary); Dr CHENG, Chih-hsiang (Caltech); Dr MANNEL, Thomas (Siegen University)

**Session Classification:** Parallel II - WG I

Contribution ID: 26

Type: **not specified**

## **Recent theory results on the CP violation in $B \rightarrow \pi \pi$**

*Tuesday, 1 December 2009 14:30 (30 minutes)*

**Presenter:** Dr HUBER, Tobias (Uni Siegen)

**Session Classification:** Parallel III - WG I

Contribution ID: 27

Type: **not specified**

## **SCET sum rules for B to P and B to V transition form factors**

*Thursday, 3 December 2009 09:45 (30 minutes)*

**Presenter:** DE FAZIO, Fulvia (BA)

**Session Classification:** Parallel VII - WG II

Contribution ID: 28

Type: **not specified**

## Measuring alpha using B->a1pi and K1pi decays

*Tuesday, 1 December 2009 15:00 (30 minutes)*

**Presenter:** STRACKA, Simone (MI)

**Session Classification:** Parallel III - WG I

Contribution ID: **30**

Type: **not specified**

## **Flavour Physics in the LHT and RS models**

**Presenter:** Mr DULING, Björn (Technische Universität München)

Contribution ID: 31

Type: **not specified**

## Charged Higgs effects in B->D tau nu

**Presenter:** Dr WESTHOFF, Susanne (THEP Mainz)

Contribution ID: 33

Type: **not specified**

## **Flavour Structures of SUSY models**

*Thursday, 3 December 2009 11:15 (45 minutes)*

**Presenter:** Dr GOTO, Toru (KEK)

**Session Classification:** Parallel VIII - WGA

Contribution ID: 34

Type: **not specified**

## Improved prediction for B-> tau nu from the UTA

*Thursday, 3 December 2009 12:00 (30 minutes)*

**Presenter:** CIUCHINI, Marco (INFN Roma Tre)

**Session Classification:** Parallel VIII - WGA



Contribution ID: 35

Type: **not specified**

## Introduction

*Tuesday, 1 December 2009 15:00 (15 minutes)*

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

**Session Classification:** WGA: Benchmark Project

Contribution ID: **36**

Type: **not specified**

## Discussion

*Tuesday, 1 December 2009 15:15 (45 minutes)*

**Session Classification:** WGA: Benchmark Project

Contribution ID: 37

Type: **not specified**

## Search for tau LFV with polarized beams

*Monday, 30 November 2009 14:30 (30 minutes)*

**Presenter:** Mr CERVELLI, Alberto (infn Pisa)

**Session Classification:** Parallel I - TAU

Contribution ID: **38**

Type: **not specified**

## **Non-LFV Tau Physics with polarized beams**

*Wednesday, 2 December 2009 16:30 (30 minutes)*

**Presenter:** Prof. RONEY, Michael (University of Victoria)

**Session Classification:** Parallel V bis - TAU

Contribution ID: 39

Type: **not specified**

## **MEG. First Results and Perspectives**

*Monday, 30 November 2009 11:15 (30 minutes)*

**Presenter:** RENGA, Francesco (RM1)

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) II

Contribution ID: 40

Type: **not specified**

## Interplay of high-pt and flavour physics

*Monday, 30 November 2009 11:45 (30 minutes)*

**Presenter:** Mr HURTH, Tobias Hurth (CERN)

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) II

Contribution ID: 41

Type: **not specified**

## **Flavour Physics in the LHT and RS models**

*Monday, 30 November 2009 14:30 (45 minutes)*

**Presenter:** Mr DULING, Björn (Technische Universität München)

**Session Classification:** Parallel I - WGA

Contribution ID: 42

Type: **not specified**

## **Charged Higgs effects in B->D tau nu**

*Monday, 30 November 2009 15:15 (30 minutes)*

**Presenter:** Dr WESTHOFF, Susanne (THEP Mainz)

**Session Classification:** Parallel I - WGA



Contribution ID: 43

Type: **not specified**

## Discussion

*Monday, 30 November 2009 15:45 (15 minutes)*

**Session Classification:** Parallel I - WGA

Contribution ID: 44

Type: **not specified**

## **Discussion on white paper**

*Thursday, 3 December 2009 10:15 (30 minutes)*

**Session Classification:** Parallel VII - WG II

Contribution ID: 46

Type: **not specified**

## White Paper Discussion

*Monday, 30 November 2009 12:15 (20 minutes)*

**Session Classification:** Plenary (Introduction to the SuperB Physics Workshop) II

Contribution ID: 47

Type: **not specified**

## Discussion

*Wednesday, 2 December 2009 11:15 (1h 45m)*

**Session Classification:** WGA: Benchmarks