

**Second Workshop on Beyond 3
Generation Standard Model –
New Fermions at the
Crossroads of Tevatron and
LHC**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Opening

Thursday 14 January 2010 09:50 (10 minutes)

Session Classification: Session I

Contribution ID: 1

Type: **not specified**

Summary of the Previous Workshop: the Four Statements

Thursday 14 January 2010 10:00 (25 minutes)

Presenter: Dr UNEL, Gokhan (U.C. Irvine)

Session Classification: Session I

Contribution ID: 2

Type: **not specified**

Highlights from Nagoya Strong Coupling Workshop or TBA

Presenter: TENTATIVE

Contribution ID: 3

Type: **not specified**

Approaching a strong fourth family

Thursday 14 January 2010 10:25 (25 minutes)

Presenter: HOLDOM, Bob (University of Toronto)

Session Classification: Session I

Contribution ID: 4

Type: **not specified**

Four generations and precision constraints

Thursday 14 January 2010 11:15 (25 minutes)

Presenter: PLEHN, Tilman (Heidelberg University)

Session Classification: Session II

Contribution ID: 5

Type: **not specified**

Electroweak oblique parameter calculation tool and 4th generation

Thursday 14 January 2010 11:40 (15 minutes)

Presenter: OZCAN, Erkan (University College London)

Session Classification: Session II

Contribution ID: 6

Type: **not specified**

Heavy leptons, EW precision tests, and technicolor

Thursday 14 January 2010 11:55 (20 minutes)

Presenter: ANTIPIN, Oleg (Helsinki)

Session Classification: Session II

Contribution ID: 7

Type: **not specified**

Constraint on 4th Generation Leptons from Muon $g-2$

Thursday 14 January 2010 12:15 (15 minutes)

Presenter: LEE, Fei-Fan (NTU)

Session Classification: Session II

Contribution ID: 8

Type: **not specified**

How much space is left for a new family of fermions?

Thursday 14 January 2010 14:00 (20 minutes)

Presenter: LENZ, Alexander (Erlangen)

Session Classification: Session III

Contribution ID: 9

Type: **not specified**

Constraints on CKM matrix elements within a fourth generation

Thursday 14 January 2010 14:20 (20 minutes)

Presenter: Prof. LACKER, Heiko (Berlin, Humboldt University)

Session Classification: Session III

Contribution ID: **10**

Type: **not specified**

4th Generation and Top Partner Search at CDF

Thursday 14 January 2010 14:40 (25 minutes)

Presenter: WHITESON, Daniel (CDF/University of California, Irvine)

Session Classification: Session III

Contribution ID: 11

Type: **not specified**

Direct and Indirect Probes for New Heavy Fermions at D0

Thursday 14 January 2010 15:05 (20 minutes)

Presenter: NAGY, Elemer (D0/CPPM and Fermilab, talk given by Tulika Bose)

Session Classification: Session III

Contribution ID: 12

Type: **not specified**

Prospects for Searches for New Heavy Quarks with CMS

Thursday 14 January 2010 16:00 (25 minutes)

Presenter: BOSE, Tulika (CMS/Boston University)

Session Classification: Session IV

Contribution ID: 13

Type: **not specified**

Search for 4th Generation Quarks at ATLAS

Thursday 14 January 2010 16:25 (20 minutes)

Presenter: WHITESON, Daniel (Atlas/University of California, Irvine)

Session Classification: Session IV

Contribution ID: 14

Type: **not specified**

NLO Single Top and Fourth Generation Quark Production

Thursday 14 January 2010 16:45 (20 minutes)

Presenter: MALTONI, Fabio (Louvain, talk given by Tilman Plehn)

Session Classification: Session IV

Contribution ID: 15

Type: **not specified**

Collider signals of a composite Higgs in the SM4

Thursday 14 January 2010 17:05 (20 minutes)

Presenter: BAR-SHALOM, Shaoly (Technion)

Session Classification: Session IV

Contribution ID: 16

Type: **not specified**

A_Kpi direct CPV difference, AFB in $B \rightarrow K^* l^+ l^-$, and D mixing

Friday 15 January 2010 09:30 (20 minutes)

Presenter: Prof. LACKER, Heiko (BaBar/Berlin, Humboldt University)

Session Classification: Session V

Contribution ID: 17

Type: **not specified**

Acp(Kpi), A_FB(K*l+l-) and D0-mixing as probe of 4th Generation

Friday 15 January 2010 09:50 (20 minutes)

Presenter: NAKAO, Mikihiko (Belle/KEK)

Session Classification: Session V

Contribution ID: **18**

Type: **not specified**

B and K Physics in the scenario of one extra Fermion family

Friday 15 January 2010 10:10 (20 minutes)

Presenter: NANDI, Soumitra (University of Torino)

Session Classification: Session V

Contribution ID: 19

Type: **not specified**

Revisit of Flavor and CPV Data with Heavy t' and b'

Friday 15 January 2010 10:30 (15 minutes)

Presenter: MA, Chien-Yi (NTU)

Session Classification: Session V

Contribution ID: 20

Type: **not specified**

Tagged Bs -> J/psi phi measurement of $\sin\phi_s$ etc.

Friday 15 January 2010 11:10 (20 minutes)

Presenter: ZIEMINSKA, Daria (D0/Indiana University)

Session Classification: Session VI

Contribution ID: 21

Type: **not specified**

Phi_s, AFB(Kl), and D0-mixing as probes of 4th generation

Friday 15 January 2010 11:30 (25 minutes)

Presenter: PUNZI, Giovanni (CDF/FNAL)

Session Classification: Session VI

Contribution ID: 22

Type: **not specified**

Effects of a fourth generation on various observables in $b \rightarrow sl+l-$

Friday 15 January 2010 11:55 (15 minutes)

Presenter: BASHIRY, Vali (Cyprus International)

Session Classification: Session VI

Contribution ID: 23

Type: **not specified**

Prospects for CPV in $B_s \rightarrow J/\psi \phi$ and $AFB(B \rightarrow K^* \ell)$

Friday 15 January 2010 12:10 (25 minutes)

Presenter: MUSY, Marcus (LHCb/Barcelona)

Session Classification: Session VI

Contribution ID: 24

Type: **not specified**

Discovering Wimpless dark matter through 4th generation quarks

Friday 15 January 2010 14:00 (20 minutes)

Presenter: Dr ALWALL, Johan (SLAC)

Session Classification: Session VII

Contribution ID: 25

Type: **not specified**

Overview on Vector-like Quarks

Friday 15 January 2010 14:20 (20 minutes)

Presenter: BRANCO, Gustavo (Technical University of Lisbon)

Session Classification: Session VII

Contribution ID: 26

Type: **not specified**

Unitarity Violation, Bs mixing phase, visible $t \rightarrow cZ$ decay

Friday 15 January 2010 14:40 (20 minutes)

Presenter: NEBOT, Miguel (Valencia)

Session Classification: Session VII

Contribution ID: 27

Type: **not specified**

Search of new fermions with nonstandard couplings in ATLAS

Friday 15 January 2010 15:00 (20 minutes)

Presenter: OZCAN, Erkan (Atlas/University College London)

Session Classification: Session VII

Contribution ID: 28

Type: **not specified**

Renormalization Group Fixed Point with a Fourth Generation: Solution to the hierarchy problem and other implications

Friday 15 January 2010 15:50 (25 minutes)

Presenter: HUNG, PQ (Virginia)

Session Classification: Session VIII

Contribution ID: 29

Type: **not specified**

Strongly coupled fourth family and order of electroweak phase transition

Friday 15 January 2010 16:15 (20 minutes)

Presenter: KIKUKAWA, Yoshio (Tokyo)

Session Classification: Session VIII

Contribution ID: 30

Type: **not specified**

Dynamical Electroweak Symmetry Breaking, quark mass hierarchy, and Fourth Family

Friday 15 January 2010 16:35 (20 minutes)

Presenter: HASHIMOTO, Michio (KEK)

Session Classification: Session VIII

Contribution ID: 31

Type: **not specified**

Forum: Higgs-Yukawa Model on a Lattice

Presentation given by Philipp Gerhold (20')

Presenters: SONI, Amarjit (BNL); LIN, David (NCTU); GERHOLD, Philipp (Humboldt); KIKUKAWA, Yoshio (Tokyo)

Contribution ID: 32

Type: **not specified**

CP Violation in $b' \rightarrow s$ Decays

Saturday 16 January 2010 09:30 (20 minutes)

Presenter: ARHRIB, Abdes (Tanger)

Session Classification: Session IX

Contribution ID: 33

Type: **not specified**

Leading CP Violation Effect with Four Generations

Saturday 16 January 2010 09:50 (15 minutes)

Presenter: SHEN, Chia-Hsien (NTU)

Session Classification: Session IX

Contribution ID: 34

Type: **not specified**

Forum: How can Super B factory pin down 4th generation parameters

Super B/Belle II & Discussion

Presenters: Dr PAOLONI, Eugenio (Super B/Pisa); Prof. CHANG, Paoti (Belle II/National Taiwan University)

Contribution ID: 35

Type: **not specified**

Summary: Highlights and Prospects

Saturday 16 January 2010 11:30 (35 minutes)

Presenter: SONI, Amarjit (BNL)

Session Classification: Session X

Contribution ID: **36**

Type: **not specified**

Close out

Saturday 16 January 2010 12:05 (10 minutes)

Session Classification: Session X

Contribution ID: 37

Type: **not specified**

Registration

Contribution ID: **38**

Type: **not specified**

Introduction

Friday 15 January 2010 16:55 (20 minutes)

Presenter: GERHOLD, Philipp (Humboldt)

Session Classification: Forum: Higgs-Yukawa Model on a Lattice

Contribution ID: 39

Type: **not specified**

Forum

Friday 15 January 2010 17:15 (45 minutes)

Presenters: SONI, Amarjit (BNL); LIN, David (NCTU); GERHOLD, Philipp (Humboldt); KIKUKAWA, Yoshio (Tokyo)

Session Classification: Forum: Higgs-Yukawa Model on a Lattice

Contribution ID: 40

Type: **not specified**

Introduction

Saturday 16 January 2010 10:05 (20 minutes)

Presenters: Dr PAOLONI, Eugenio (Super B/Pisa); Prof. CHANG, Paoti (Belle II/NTU)

Session Classification: Forum: How can Super B factory pin down 4th generation parameters

Contribution ID: 41

Type: **not specified**

Forum

Saturday 16 January 2010 10:25 (40 minutes)

Presenters: Dr PAOLONI, Eugenio (BaBar); PUNZI, Giovanni (FNAL); Prof. LACKER, Heiko (Berlin, Humboldt University); MUSY, Marcus (Barcelona); NAKAO, Mikihiro (KEK); Prof. CHANG, Paoti (National Taiwan University)

Session Classification: Forum: How can Super B factory pin down 4th generation parameters