

# Heavy Quarks and Leptons 2018



## Report of Contributions

Contribution ID: 5

Type: **not specified**

## **CP violation in non-leptonic two and three-body B decays**

*Monday, 28 May 2018 09:00 (30 minutes)*

**Presenter:** VOS, Keri (University Siegen)

**Session Classification:** CP Violation

Contribution ID: 6

Type: **not specified**

## **CP violation in beauty decays (LHCb)**

*Monday, 28 May 2018 09:30 (20 minutes)*

**Presenter:** CHOBANOVA, Veronika (University of Santiago de Compostela)

**Session Classification:** CP Violation

Contribution ID: 9

Type: **not specified**

## **Study of CP violation in B meson decays (Belle)**

*Monday, 28 May 2018 09:50 (20 minutes)*

**Presenter:** YUSA, Yosuke (Niigata University)

**Session Classification:** CP Violation

Contribution ID: **10**

Type: **not specified**

## **Precise measurements of CP violation in B decays at Belle II**

*Monday, 28 May 2018 10:40 (20 minutes)*

**Presenter:** OBERHOF, Benjamin (INFN Frascati)

**Session Classification:** CP Violation

Contribution ID: 11

Type: **not specified**

## Charmless b decays (LHCb)

*Monday, 28 May 2018 11:00 (20 minutes)*

**Presenter:** DALSENO, Jeremy (University of Santiago de Compostela)

**Session Classification:** CP Violation

Contribution ID: 12

Type: **not specified**

## **Study of Charmless Hadronic B Decays and rare D Decays at Belle**

*Monday, 28 May 2018 11:20 (20 minutes)*

**Presenter:** ATMACAN, Hulya (University of Cincinnati)

**Session Classification:** CP Violation

Contribution ID: 13

Type: **not specified**

## **Flavour anomalies: where we are and where we go**

*Monday, 28 May 2018 14:00 (30 minutes)*

**Presenter:** MATIAS, Joaquim (Autonomous University of Barcelona)

**Session Classification:** Rare Decay



Contribution ID: 14

Type: **not specified**

## **Rare Decays; including angular analysis of Bd- $\rightarrow$ K\* $\mu\mu$ with ATLAS**

*Monday, 28 May 2018 14:30 (20 minutes)*

**Presenter:** BEVAN, Adrian (Queen Mary University of London)

**Session Classification:** Rare Decay

Contribution ID: 15

Type: **not specified**

## Rare decays at CMS

*Monday, 28 May 2018 14:50 (20 minutes)*

**Presenter:** PIEDRA GOMEZ, Jonatan (University of Cantabria)

**Session Classification:** Rare Decay

Contribution ID: 16

Type: **not specified**

## Rare b and c decays at LHCb

*Monday, 28 May 2018 15:10 (20 minutes)*

**Presenter:** PAIS, Preema (University of Massachusetts Amherst)

**Session Classification:** Rare Decay

Contribution ID: 17

Type: **not specified**

## **Study of Radiative and Electroweak Penguin Decays at Belle**

*Monday, 28 May 2018 16:00 (20 minutes)*

**Presenter:** TANIGUCHI, Nanae (KEK IPNS)

**Session Classification:** Rare Decay

Contribution ID: **18**

Type: **not specified**

## **Physics cases of rare B meson decays at Belle II**

*Monday, 28 May 2018 16:20 (20 minutes)*

**Presenter:** NAKAMURA, Katsuro (KEK IPNS)

**Session Classification:** Rare Decay

Contribution ID: 20

Type: **not specified**

## CEPC Design Status

*Monday, 28 May 2018 16:40 (25 minutes)*

**Presenter:** WANG, Dou (IHEP Beijing)

**Session Classification:** New/Future experiment

Contribution ID: 21

Type: **not specified**

## Status and Physics at ILC

*Monday, 28 May 2018 17:05 (25 minutes)*

**Presenter:** YAMAMOTO, Hitoshi (Tohoku University)

**Session Classification:** New/Future experiment

Contribution ID: 22

Type: **not specified**

## **Associated production of a top-antitop pair with a heavy boson at NLO+NNLL accuracy**

*Tuesday, 29 May 2018 08:30 (30 minutes)*

**Presenter:** BROGGIO, Alessandro (TUM)

**Session Classification:** Top



Contribution ID: 23

Type: **not specified**

## **Searches for rare top processes, vector-like quarks, and third generation SUSY at ATLAS/CMS (ATLAS speaker)**

*Tuesday, 29 May 2018 09:00 (25 minutes)*

**Presenter:** VALERY, Loic (DESY)

**Session Classification:** Top

Contribution ID: 24

Type: **not specified**

## **Highlights of top quark production measurements at ATLAS/CMS (ATLAS speaker)**

*Tuesday, 29 May 2018 09:25 (25 minutes)*

**Presenter:** SHIMIZU, Shima (Kobe University)

**Session Classification:** Top

Contribution ID: 25

Type: **not specified**

## **Highlight of top quark properties measurements at ATLAS/CMS (CMS speaker)**

*Tuesday, 29 May 2018 09:50 (25 minutes)*

**Presenter:** KUMAR MAL, Prolay (NISER)

**Session Classification:** Top

Contribution ID: 26

Type: **not specified**

## **Associated top quark production at the ATLAS/CMS (CMS speaker)**

*Tuesday, 29 May 2018 10:45 (25 minutes)*

**Presenter:** BROCHERO CIFUENTES, Javier (Ciemat)

**Session Classification:** Top

Contribution ID: 32

Type: **not specified**

## **Recent status of neutrino phenomenology**

*Tuesday, 29 May 2018 14:00 (30 minutes)*

**Presenter:** YASUDA, Osamu (Tokyo Metropolitan University)

**Session Classification:** Neutrino

Contribution ID: 33

Type: **not specified**

## Oscillation and Cross-section Results from T2K

*Tuesday, 29 May 2018 14:30 (25 minutes)*

**Presenter:** ZSOLDOS, Stephane (Queen Mary University of London)

**Session Classification:** Neutrino

Contribution ID: 34

Type: **not specified**

## **Precise measurement of neutrino mixing parameters and search for light sterile neutrinos (Daya Bay)**

*Tuesday, 29 May 2018 14:55 (25 minutes)*

**Presenter:** HU, Zhuojun (Sun Yat-Sen University)

**Session Classification:** Neutrino

Contribution ID: 35

Type: **not specified**

## **Precise measurement of absolute flux and spectrum of reactor neutrinos (Daya Bay)**

*Tuesday, 29 May 2018 15:20 (15 minutes)*

**Presenter:** HE, Miao (IHEP Beijing)

**Session Classification:** Neutrino



Contribution ID: 36

Type: **not specified**

## Results from the Double Chooz experiment

*Tuesday, 29 May 2018 16:05 (20 minutes)*

**Presenter:** KANEDA, Michiru (Tokyo Institute of Technology)

**Session Classification:** Neutrino

Contribution ID: 37

Type: **not specified**

## Recent Results from RENO

*Tuesday, 29 May 2018 16:25 (20 minutes)*

**Presenter:** SHIN, ChangDong (Chonnam National University)

**Session Classification:** Neutrino

Contribution ID: 38

Type: **not specified**

## **The New Muon g-2 Experiment at Fermilab: Commissioning and First Physics Data Taking**

*Friday, 1 June 2018 14:25 (25 minutes)*

**Presenter:** STAPLETON, James (Fermilab)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 39

Type: **not specified**

## **J-PARC E34 g-2/EDM experiment**

*Friday, 1 June 2018 14:00 (25 minutes)*

**Presenter:** OTANI, Masashi (KEK)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 40

Type: **not specified**

## **Recent developments on direct CP violation in the kaon system**

*Wednesday, 30 May 2018 08:30 (25 minutes)*

**Presenter:** KITAHARA, Teppei (Karlsruhe IKP)

**Session Classification:** Kaon

Contribution ID: 41

Type: **not specified**

## Search for $K^+$ to $\pi^+$ $\nu$ $\bar{\nu}$ at NA62

*Wednesday, 30 May 2018 08:55 (20 minutes)*

**Presenter:** PINZINO, Jacopo (CERN)

**Session Classification:** Kaon

Contribution ID: 42

Type: **not specified**

## **Status of KOTO experiment: KL- $\rightarrow$ pi0 nu nu study at J-PARC**

*Wednesday, 30 May 2018 09:15 (20 minutes)*

**Presenter:** NOMURA, Tadashi (KEK IPNS)

**Session Classification:** Kaon

Contribution ID: 43

Type: **not specified**

## **CP, T and CPT tests with neutral kaons at KLOE-2**

*Wednesday, 30 May 2018 09:35 (25 minutes)*

**Presenter:** SILARSKI, Michal (Jagiellonian University)

**Session Classification:** Kaon



Contribution ID: 44

Type: **not specified**

## **Radiative kaon decays: where do we stand?**

*Wednesday, 30 May 2018 10:30 (25 minutes)*

**Presenter:** CATA, Oscar (Siegen University)

**Session Classification:** Kaon

Contribution ID: 45

Type: **not specified**

## **kaons@LHCb**

*Wednesday, 30 May 2018 10:55 (20 minutes)*

**Presenter:** MARTINEZ SANTOS, Diego (Santiago de Compostela University)

**Session Classification:** Kaon

Contribution ID: 46

Type: **not specified**

## **Measurement of $\Gamma(K_{e2})/\Gamma(K_{\mu2})$ ratio using stopped positive kaons at J-PARC (TREK/E36)**

*Wednesday, 30 May 2018 11:15 (20 minutes)*

**Presenter:** SHIMIZU, Suguru (Osaka University)

**Session Classification:** Kaon

Contribution ID: 47

Type: **not specified**

## **Searches for heavy neutral lepton and lepton flavour violation and dark photons at NA62**

*Wednesday, 30 May 2018 11:35 (25 minutes)*

**Presenter:** GOUDZOVSKI, Evgueni (Birmingham University)

**Session Classification:** Kaon

Contribution ID: 48

Type: **not specified**

## **Current status and future prospect of Super-Kamiokande**

*Thursday, 31 May 2018 09:00 (25 minutes)*

**Presenter:** ITO, Shintaro (Okayama University)

**Session Classification:** Neutrino

Contribution ID: 49

Type: **not specified**

## **KamLAND-Zen experiment**

*Thursday, 31 May 2018 09:25 (20 minutes)*

**Presenter:** SHIRAI, Junpei (Tohoku University)

**Session Classification:** Neutrino

Contribution ID: 50

Type: **not specified**

## **Low energy solar neutrinos and limit on neutrino magnetic moment (Borexino)**

*Thursday, 31 May 2018 09:45 (25 minutes)*

**Presenter:** BRAVO-BERGUÑO, David (INFN/Milano)

**Session Classification:** Neutrino

Contribution ID: 51

Type: **not specified**

## **results on geoneutrinos at Borexino**

*Thursday, 31 May 2018 10:10 (15 minutes)*

**Presenter:** BASILICO, Davide (INFN/Milano)

**Session Classification:** Neutrino



Contribution ID: 52

Type: **not specified**

## Search for $0\nu\beta\beta$ decay with EXO-200 and nEXO

*Thursday, 31 May 2018 11:15 (20 minutes)*

**Presenter:** CAO, Guofu (IHEP Beijing)

**Session Classification:** Neutrino

Contribution ID: 53

Type: **not specified**

## Results from the CUORE experiment

*Thursday, 31 May 2018 11:35 (20 minutes)*

**Presenter:** MARINI, Laura (UC Berkeley)

**Session Classification:** Neutrino

Contribution ID: 54

Type: **not specified**

## Neutrinoless double- $\beta$ decay search with Gerda Phasell

*Thursday, 31 May 2018 11:55 (20 minutes)*

**Presenter:** VON STRUM, Katharina (University of Padova)

**Session Classification:** Neutrino

Contribution ID: 55

Type: **not specified**

## **First limit on neutrinoless double-beta decay from the MAJORANA DEMONSTRATOR**

*Thursday, 31 May 2018 12:15 (20 minutes)*

**Presenter:** BUUCK, Micah (University of Washington)

**Session Classification:** Neutrino

Contribution ID: 56

Type: **not specified**

## Neutrino Oscillation Results from NOvA

*Thursday, 31 May 2018 10:25 (20 minutes)*

**Presenter:** SUTER, Louise (Argonne National Laboratory)

**Session Classification:** Neutrino

Contribution ID: 58

Type: **not specified**

## Theory on B to D(\*) tau nu anomaly

*Thursday, 31 May 2018 14:00 (30 minutes)*

**Presenter:** TANAKA, Minoru (Osaka University)

**Session Classification:** CKM

Contribution ID: 59

Type: **not specified**

## **Study of Leptonic and Semi-leptonic B Decays at Belle**

*Thursday, 31 May 2018 14:30 (20 minutes)*

**Presenter:** VARVELL, Kevin (University of Sydney)

**Session Classification:** CKM

Contribution ID: **61**

Type: **not specified**

## **Latest results on semileptonic B decays at LHCb**

*Thursday, 31 May 2018 14:50 (20 minutes)*

**Presenter:** GRILLO, Lucia (Heidelberg University)

**Session Classification:** CKM



Contribution ID: 62

Type: **not specified**

## **Studies of semileptonic B decays at Belle II**

*Thursday, 31 May 2018 15:10 (20 minutes)*

**Presenter:** KROHN, Jo-Frederik (University of Melbourne)

**Session Classification:** CKM

Contribution ID: 63

Type: **not specified**

## **Charm decays and CKM matrix measurements at BES III**

*Thursday, 31 May 2018 16:00 (20 minutes)*

**Presenter:** ZHAO, Ming-Gang (Nankai University)

**Session Classification:** CKM

Contribution ID: 64

Type: **not specified**

## Hadron spectroscopy at BES III

*Thursday, 31 May 2018 16:20 (20 minutes)*

**Presenter:** WANG, Zhiyong (IHEP Beijing)

**Session Classification:** Spectroscopy

Contribution ID: 65

Type: **not specified**

## **Study of Charmed Baryons at Belle**

*Thursday, 31 May 2018 16:40 (20 minutes)*

**Presenter:** VINOKUROVA, Anna (Budker Institute)

**Session Classification:** Spectroscopy

Contribution ID: 67

Type: **not specified**

# Charmonium Production and HF decay properties at ATLAS

*Thursday, 31 May 2018 17:00 (20 minutes)*

**Presenter:** KORN, Andreas (Queen Mary University of London)

**Session Classification:** Spectroscopy

Contribution ID: 68

Type: **not specified**

## Lepton flavor violation and dark sectors

*Friday, 1 June 2018 09:00 (30 minutes)*

**Presenter:** MCKEEN, David (TRIUMF)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 70

Type: **not specified**

## Search for dark matter and dark sector at Belle II

*Friday, 1 June 2018 09:30 (20 minutes)*

**Presenter:** HAUTH, Thomas (KIT)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 71

Type: **not specified**

## **Tau decays and dark-sector searches at BaBar**

*Friday, 1 June 2018 09:50 (20 minutes)*

**Presenter:** OBERHOF, Benjamin (INFN Frascati)

**Session Classification:** LFV/tau/mu/dark sector



Contribution ID: 72

Type: **not specified**

## **Dark sector search at BES III**

*Friday, 1 June 2018 10:10 (20 minutes)*

**Presenter:** LI, Fengyun (Peking University)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 73

Type: **not specified**

## The Mu2e Experiment at Fermilab

*Friday, 1 June 2018 11:20 (25 minutes)*

**Presenter:** CARON, Jean-François (University of Houston)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 74

Type: **not specified**

## **Search for Muon to Electron Conversion at J-PARC - the COMET Experiment**

*Friday, 1 June 2018 11:45 (25 minutes)*

**Presenter:** MIHARA, Satoshi (KEK IPNS)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 75

Type: **not specified**

## **The SHiP experiment at CERN**

*Friday, 1 June 2018 12:10 (25 minutes)*

**Presenter:** CRISTINZIANI, Markus (CERN)

**Session Classification:** LFV/tau/mu/dark sector

Contribution ID: 76

Type: **not specified**

## **LHCb upgrade (Session New Experiments)**

*Friday, 1 June 2018 15:15 (25 minutes)*

**Presenter:** PAIS, Preema (University of Massachusetts Amherst)

**Session Classification:** New/Future experiment

Contribution ID: 77

Type: **not specified**

## **Commissioning and operation status of Belle II and SuperKEKB**

*Friday, 1 June 2018 15:40 (25 minutes)*

**Presenter:** UNO, Shoji (KEK IPNS)

**Session Classification:** New/Future experiment

Contribution ID: 78

Type: **not specified**

## The Hyper-Kamiokande experiment

*Friday, 1 June 2018 14:50 (25 minutes)*

**Presenter:** YOKOYAMA, Masashi (University of Tokyo)

**Session Classification:** New/Future experiment

Contribution ID: 83

Type: **not specified**

## Welcome to Yamagata City

*Monday, 28 May 2018 08:30 (10 minutes)*

**Presenter:** SAITO, DEPUTY MAYOR OF YAMAGATA CITY, Junji

**Session Classification:** Opening



Contribution ID: **84**

Type: **not specified**

## Welcome to HQL2018

*Monday, 28 May 2018 08:40 (10 minutes)*

**Presenter:** KOYAMA, PRESIDENT OF YAMAGATA UNIVERSITY, Kiyohito

**Session Classification:** Opening

Contribution ID: 85

Type: **not specified**

## Practical guide to HQL2018

*Monday, 28 May 2018 08:50 (10 minutes)*

**Presenter:** SENYO, Katsumi

**Session Classification:** Opening

Contribution ID: **86**

Type: **not specified**

## Registration

Contribution ID: 87

Type: **not specified**

## Closeout

*Friday, 1 June 2018 16:05 (20 minutes)*

**Session Classification:** Closeout

Contribution ID: **89**

Type: **not specified**

## **New CP-violation effect in charm decays**

*Tuesday, 29 May 2018 16:45 (5 minutes)*

**Presenter:** LI, Hsian-nan (Academia Sinica)

**Session Classification:** Short presentations and posters

Contribution ID: 90

Type: **not specified**

## **Analysis of gamma gamma to J/psi gamma**

*Tuesday, 29 May 2018 16:50 (5 minutes)*

**Presenter:** SEINO, Yoshiaki (Niigata University)

**Session Classification:** Short presentations and posters

Contribution ID: 91

Type: **not specified**

## **A Multi-Meson Model to $D^+ \rightarrow K^+ K^- K^+$ decay**

*Tuesday, 29 May 2018 16:55 (5 minutes)*

**Presenter:** MAGALHÃES, Patrícia (TU Muenchen)

**Session Classification:** Short presentations and posters

Contribution ID: 92

Type: **not specified**

## **Lepton flavour violation in the MSSM: exact diagonalization vs mass expansion**

*Tuesday, 29 May 2018 17:00 (5 minutes)*

**Presenter:** ROSIEK, Janusz (Warsaw University)

**Session Classification:** Short presentations and posters



Contribution ID: 93

Type: **not specified**

## Top electroweak couplings study at the ILC

*Tuesday, 29 May 2018 17:05 (5 minutes)*

**Presenter:** SATO, Yo (Tohoku University)

**Session Classification:** Short presentations and posters

Contribution ID: 94

Type: **not specified**

## **poster session**

*Tuesday, 29 May 2018 17:20 (1h 10m)*

**Session Classification:** Short presentations and posters

Contribution ID: 95

Type: **not specified**

## **The both-end readout system of the KOTO CsI calorimeter**

*Tuesday, 29 May 2018 17:10 (5 minutes)*

**Presenter:** HARA, Nobuhiro (Osaka University)

**Session Classification:** Short presentations and posters

Contribution ID: 96

Type: **not specified**

## **Multiquark resonances: theoretical interpretations**

*Tuesday, 29 May 2018 11:10 (30 minutes)*

**Presenter:** DAVIDE POLOSA, Antonio (University of Roma)

**Session Classification:** Spectroscopy

Contribution ID: 97

Type: **not specified**

## **Study of Bottomonia and Charmonia at Belle**

*Tuesday, 29 May 2018 11:40 (20 minutes)*

**Presenter:** KROKOVNY, Pavel (Budker Institute)

**Session Classification:** Spectroscopy

Contribution ID: 98

Type: **not specified**

## **CKM angle gamma, Charm mixing and CP violation at LHCb**

*Monday, 28 May 2018 11:40 (30 minutes)*

**Presenter:** KROKOVNY, Pavel (Budker Institute)

**Session Classification:** CP Violation

Contribution ID: 99

Type: **not specified**

## **Development and testing of the HK PMT implosion covers in Japan and Spain**

*Tuesday, 29 May 2018 17:15 (5 minutes)*

**Presenter:** BRAVO-BERGUÑO, David (Autonomous University of Madrid)

**Session Classification:** Short presentations and posters

Contribution ID: 100

Type: **not specified**

## **Recent results on Lepton Flavor Violation and on Dark sector searches (LHCb)**

*Friday, 1 June 2018 11:00 (20 minutes)*

**Presenter:** MARTINEZ SANTOS, Diego (Santiago de Compostela University)

**Session Classification:** LFV/tau/mu/dark sector



Contribution ID: **101**

Type: **not specified**

## **Spectroscopy and exotica of HF states in ATLAS**

*Tuesday, 29 May 2018 12:00 (20 minutes)*

**Presenter:** NOVOTNY, Radek (Czech Technical University in Prague)

**Session Classification:** Spectroscopy

Contribution ID: **102**

Type: **not specified**

## Registration

Contribution ID: **103**

Type: **not specified**

## **Gerda new result for Neutrino 2018**

*Friday, 1 June 2018 12:35 (5 minutes)*

**Primary author:** VON STRUM, Katharina (University of Padova)

**Session Classification:** Neutrino