

**HQL2021 - The XV
International Conference on
Heavy Quarks and Leptons**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Theory motivation: what measurements are needed?

Thursday 16 September 2021 16:45 (25 minutes)

Presenter: LENZ, Alexander (IPPP, Durham)

Session Classification: New experiments

Contribution ID: 2

Type: **not specified**

LHCb upgrade

Thursday 16 September 2021 17:15 (20 minutes)

Presenter: ALESSIO, Federico (CERN)

Session Classification: New experiments

Contribution ID: 3

Type: **not specified**

New experiments for neutrinos at the LHC

Thursday 16 September 2021 17:40 (20 minutes)

Presenter: DE LELLIS, Giovanni (Universita e sezione INFN di Napoli (IT))

Session Classification: New experiments

Contribution ID: 4

Type: **not specified**

Flavour prospects at the ILC

Friday 17 September 2021 10:45 (20 minutes)

Presenter: URQUIJO, Phillip (University of Melbourne (AU))

Session Classification: New experiments

Contribution ID: 5

Type: **not specified**

Flavour prospects at future circular colliders

Friday 17 September 2021 11:10 (20 minutes)

Presenter: HELSENS, Clement (CERN)

Session Classification: New experiments

Contribution ID: 6

Type: **not specified**

Theory of Neutrinos

Monday 13 September 2021 16:55 (20 minutes)

Presenter: TURNER, Jessica (Durham University)

Session Classification: Neutrino physics

Contribution ID: 7

Type: **not specified**

Absolute neutrino mass measurements

Monday 13 September 2021 17:20 (16 minutes)

Presenter: HICKFORD, Stephanie (Karlsruhe Institute of Technology (KIT))

Session Classification: Neutrino physics

Contribution ID: 8

Type: **not specified**

Neutrinoless Double Beta Decay

Monday 13 September 2021 17:40 (16 minutes)

Presenter: SINGH, Vivek (University of California, Berkeley)

Session Classification: Neutrino physics

Contribution ID: 9

Type: **not specified**

Probing the Neutrino Sky for new Physics with IceCube

Monday 13 September 2021 18:00 (16 minutes)

Presenter: NISA, Mehr (Michigan State University)

Session Classification: Neutrino physics

Contribution ID: **10**

Type: **not specified**

Solar neutrino detection with Borexino: the pp chain and the CNO cycle

Monday 13 September 2021 18:20 (16 minutes)

Presenter: BIONDI, Riccardo (INFN - National Institute for Nuclear Physics)

Session Classification: Neutrino physics

Contribution ID: 11

Type: **not specified**

Theta 13 Reactor Neutrino Experiments

Thursday 16 September 2021 08:55 (16 minutes)

Presenter: WU, Qun

Session Classification: Neutrino physics

Contribution ID: 12

Type: **not specified**

Global Fits to Neutrino Oscillation Data

Thursday 16 September 2021 08:30 (20 minutes)

Presenter: TERNES, Christoph Andreas (INFN, Sezione di Torino)

Session Classification: Neutrino physics

Contribution ID: 13

Type: **not specified**

Latest Results from the T2K Experiment”

Thursday 16 September 2021 09:15 (16 minutes)

Presenter: ATKIN, Edward Thomas (Imperial College (GB))

Session Classification: Neutrino physics

Contribution ID: 14

Type: **not specified**

Sterile Neutrino Searches at Reactors

Thursday 16 September 2021 09:35 (16 minutes)

Presenter: OH, Yoomin (Institute for Basic Science)

Session Classification: Neutrino physics

Contribution ID: 15

Type: **not specified**

Status of the JUNO Experiment

Thursday 16 September 2021 09:55 (16 minutes)

Presenter: YUE, Baobiao (Sun Yet-sen University)

Session Classification: Neutrino physics

Contribution ID: 16

Type: **not specified**

Sterile neutrino searches at accelerators

Friday 17 September 2021 14:30 (16 minutes)

Presenter: MOONEY, Michael (Colorado State University)

Session Classification: Neutrino physics

Contribution ID: 17

Type: **not specified**

Latest Results from the NOvA Experiment

Friday 17 September 2021 14:50 (16 minutes)

Presenter: BIAN, Jianming (University of California Irvine (US))

Session Classification: Neutrino physics

Contribution ID: **18**

Type: **not specified**

Status of the Hyper-K Experiment

Friday 17 September 2021 15:10 (16 minutes)

Presenter: KING, Sophie (King's College London)

Session Classification: Neutrino physics

Contribution ID: 19

Type: **not specified**

Status of the DUNE Experiment

Friday 17 September 2021 15:30 (16 minutes)

Presenter: WU, Wanwei (Fermi National Accelerator Lab. (US))

Session Classification: Neutrino physics

Contribution ID: 20

Type: **not specified**

Semileptonic B decays

Wednesday 15 September 2021 08:30 (25 minutes)

Presenter: GAMBINO, paolo (università di torino)

Session Classification: CKM

Contribution ID: 21

Type: **not specified**

Recent Lattice-QCD results

Wednesday 15 September 2021 09:00 (25 minutes)

Presenter: BOUCHARD, Chris (University of Glasgow)

Session Classification: CKM

Contribution ID: 22

Type: **not specified**

Recent results on semileptonic B decays at B-Factories

Wednesday 15 September 2021 09:30 (16 minutes)

Presenter: CAO, Lu (University of Bonn)

Session Classification: CKM

Contribution ID: 23

Type: **not specified**

Recent results and prospects on semileptonic decays from LHCb

Wednesday 15 September 2021 09:50 (16 minutes)

Presenter: SMITH, Mark (Imperial College (GB))

Session Classification: CKM

Contribution ID: 24

Type: **not specified**

Latest results on semileptonic charm decays (review of all experiments)

Presenter: GILMAN, Alexander Leon (University of Oxford (GB))

Session Classification: CKM

Contribution ID: 25

Type: **not specified**

Belle II status and prospects for semileptonic decay

Wednesday 15 September 2021 10:40 (16 minutes)

Presenter: BAUER, Moritz (Karlsruhe Institute of Technology (KIT))

Session Classification: CKM

Contribution ID: 26

Type: **not specified**

Latest results on semileptonic charm decays (review of all experiments)

Wednesday 15 September 2021 11:00 (16 minutes)

Presenter: GILMAN, Alexander Leon (University of Oxford (GB))

Session Classification: CKM

Contribution ID: 27

Type: **not specified**

Overview of kaon physics

Monday 13 September 2021 14:30 (20 minutes)

Author: GORBAHN, Martin (Liverpool University)

Presenter: GORBAHN, Martin (Liverpool University)

Session Classification: Kaon physics

Contribution ID: 28

Type: **not specified**

tt and single top cross section

Thursday 16 September 2021 10:45 (16 minutes)

Presenter: MAL, Prolay (National Institute of Science Education and Research (IN))

Session Classification: Top physics

Contribution ID: 29

Type: **not specified**

top quark properties and mass

Thursday 16 September 2021 11:05 (16 minutes)

Presenter: RAVINA, Baptiste (University of Glasgow (GB))

Session Classification: Top physics

Contribution ID: **30**

Type: **not specified**

Searches for new physics with top quarks

Thursday 16 September 2021 11:45 (16 minutes)

Presenter: MOHANTY, Gagan (Tata Inst. of Fundamental Research (IN))

Session Classification: Top physics

Contribution ID: **31**

Type: **not specified**

tt+X and 4t

Thursday 16 September 2021 11:25 (16 minutes)

Presenter: KOLB, Mathis (Université Paris-Saclay (FR))

Session Classification: Top physics

Contribution ID: 32

Type: **not specified**

EFT synergies between top and beauty

Thursday 16 September 2021 12:05 (20 minutes)

Presenter: HILLER, Gudrun (Technische Universitaet Dortmund (DE))

Session Classification: Top physics

Contribution ID: 33

Type: **not specified**

Theory of LFV

Tuesday 14 September 2021 16:30 (20 minutes)

Presenter: PASSEMAR, Emilie

Session Classification: Precision lepton measurements

Contribution ID: 34

Type: **not specified**

Tau LFV at the LHC

Tuesday 14 September 2021 16:55 (16 minutes)

Presenter: JOSHI, Bhargav Madhusudan (University of Florida (US))

Session Classification: Precision lepton measurements

Contribution ID: 35

Type: **not specified**

Lepton flavour violation in B and D decays

Tuesday 14 September 2021 17:15 (16 minutes)

Presenter: DALL'OCCO, Elena (Technische Universitaet Dortmund (DE))

Session Classification: Precision lepton measurements

Contribution ID: 36

Type: **not specified**

Belle tau LFV

Tuesday 14 September 2021 17:35 (16 minutes)

Presenter: FEICHTINGER, Paul (Austrian Academy of Sciences (AT))

Session Classification: Precision lepton measurements

Contribution ID: 37

Type: **not specified**

Recent Babar results on lepton flavor universality and violation in $\Upsilon(3S)$ decays

Tuesday 14 September 2021 17:55 (16 minutes)

Presenter: SIBIDANOV, Alexei (University of Victoria)

Session Classification: Precision lepton measurements

Contribution ID: **38**

Type: **not specified**

Theory of muon $g-2$

Presenter: TEUBNER, Thomas (University of Liverpool)

Session Classification: Precision lepton measurements

Contribution ID: 39

Type: **not specified**

FNAL muon g-2

Friday 17 September 2021 08:50 (20 minutes)

Presenter: PRICE, Joseph (University of Liverpool)

Session Classification: Precision lepton measurements

Contribution ID: 40

Type: **not specified**

JPARC muon g-2

Friday 17 September 2021 09:15 (16 minutes)

Presenters: KAMIOKA, Shusei (KEK); KAMIOKA, Shusei (CERN)

Session Classification: Precision lepton measurements

Contribution ID: 41

Type: **not specified**

mu2e at FNAL and JPARC

Friday 17 September 2021 09:35 (16 minutes)

Presenter: GIOVANNELLA, Simona (INFN)

Session Classification: Precision lepton measurements

Contribution ID: 42

Type: **not specified**

tau EDM+MDM

Friday 17 September 2021 09:55 (16 minutes)

Presenter: HAYASAKA, Kiyoshi (Niigata University)

Session Classification: Precision lepton measurements

Contribution ID: 43

Type: **not specified**

Lattice QCD and ϵ_s'/ϵ_s

Monday 13 September 2021 14:55 (20 minutes)

Presenter: BOYLE, Peter (Brookhaven National Laboratory)

Session Classification: Kaon physics

Contribution ID: 44

Type: **not specified**

K⁺→π⁺ ν nubar measurement at CERN NA62

Thursday 16 September 2021 14:30 (16 minutes)

Author: MARCHEVSKI, Radoslav (CERN)

Presenter: MARCHEVSKI, Radoslav (CERN)

Session Classification: Kaon physics

Contribution ID: 45

Type: **not specified**

KL->pi0 nu nubar search at J-PARC KOTO

Thursday 16 September 2021 14:50 (16 minutes)

Author: LIN, Chieh (National Taiwan University)

Presenter: LIN, Chieh (National Taiwan University)

Session Classification: Kaon physics

Contribution ID: 46

Type: **not specified**

Measurement of radiative $K^{+-} \rightarrow e^+ \nu$ gamma decay at J-PARC E36

Thursday 16 September 2021 15:10 (16 minutes)

Author: KOBAYASHI, Atsushi (Chiba University, Japan)

Presenter: KOBAYASHI, Atsushi (Chiba University, Japan)

Session Classification: Kaon physics

Contribution ID: 47

Type: **not specified**

Latest results from NA62 (other than $K^+ \rightarrow \pi^+ \nu$ nubar)

Friday 17 September 2021 11:35 (16 minutes)

Author: MARCHEVSKI, Radoslav (CERN)

Presenter: MARCHEVSKI, Radoslav (CERN)

Session Classification: Kaon physics

Contribution ID: 48

Type: **not specified**

Next-generation Kaon experiments

Friday 17 September 2021 11:55 (20 minutes)

Author: MOULSON, Matthew David

Presenter: MOULSON, Matthew David

Session Classification: Kaon physics

Contribution ID: 49

Type: **not specified**

Welcome

Monday 13 September 2021 11:00 (30 minutes)

Presenter: GERSHON, Timothy (University of Warwick (GB))

Session Classification: Welcome + hot topics

Contribution ID: 50

Type: **not specified**

Hot topic from Belle 2: D lifetimes

Monday 13 September 2021 11:30 (20 minutes)

Presenter: CASAROSA, Giulia (INFN - National Institute for Nuclear Physics)

Session Classification: Welcome + hot topics

Contribution ID: 51

Type: **not specified**

Hot topic from LHCb: Tcc

Monday 13 September 2021 11:55 (20 minutes)

Presenter: NEEDHAM, Matthew David (The University of Edinburgh (GB))

Session Classification: Welcome + hot topics

Contribution ID: 52

Type: **not specified**

Hot topic from ATLAS: new top measurements

Friday 17 September 2021 12:20 (20 minutes)

Presenter: SINGH, Sahibjeet (University of Toronto (CA))

Session Classification: Welcome + hot topics

Contribution ID: 53

Type: **not specified**

CPV in charmless beauty hadrons

Tuesday 14 September 2021 08:30 (16 minutes)

Presenter: PERAZZINI, Stefano (Universita e INFN, Bologna (IT))

Session Classification: CP violation

Contribution ID: 54

Type: **not specified**

CPV at Belle and Belle II

Tuesday 14 September 2021 08:50 (16 minutes)

Presenter: LIBBY, James (Indian Institute of Technology Madras)

Session Classification: CP violation

Contribution ID: 55

Type: **not specified**

CP violation in flavour anomaly models

Tuesday 14 September 2021 09:10 (20 minutes)

Presenter: KIRK, Matthew (La Sapienza and INFN Roma1)

Session Classification: CP violation

Contribution ID: 56

Type: **not specified**

CPV results from ATLAS & CMS

Tuesday 14 September 2021 09:35 (16 minutes)

Presenter: CERRI, Alex (University of Sussex (GB))

Session Classification: CP violation

Contribution ID: 57

Type: **not specified**

Results on the CKM angles gamma & phi_s at LHCb

Tuesday 14 September 2021 09:55 (16 minutes)

Presenter: GILMAN, Alexander Leon (University of Oxford (GB))

Session Classification: CP violation

Contribution ID: 58

Type: **not specified**

Results on charm CPV from LHCb

Tuesday 14 September 2021 10:45 (16 minutes)

Presenter: FERRARI, Fabio (University of Bologna and INFN (IT))

Session Classification: CP violation

Contribution ID: 59

Type: **not specified**

Strong-phase inputs for CPV measurements at LHCb and BELLE II

Tuesday 14 September 2021 11:05 (16 minutes)

Presenter: ZHANG, Yu (University of Oxford (GB))

Session Classification: CP violation

Contribution ID: **60**

Type: **not specified**

Theory overview

Monday 13 September 2021 15:20 (20 minutes)

Presenter: BORDONE, Marzia (University of Torino)

Session Classification: Rare decays

Contribution ID: **61**

Type: **not specified**

LHCb results on electroweak penguin decays

Presenter: KREPS, Michal (University of Warwick (GB))

Session Classification: Rare decays

Contribution ID: 62

Type: **not specified**

Rare decays @ Belle II

Monday 13 September 2021 15:45 (16 minutes)

Presenters: BASITH, Abdul (Tata Institute of Fundamental Research Mumbai); ABDUL , Basith

Session Classification: Rare decays

Contribution ID: 63

Type: **not specified**

LHCb results on LU ratios & very rare decays

Wednesday 15 September 2021 11:20 (20 minutes)

Presenter: RAMA, Matteo (INFN Pisa (IT))

Session Classification: Rare decays

Contribution ID: 64

Type: **not specified**

Rare decays @ Belle & BaBar

Wednesday 15 September 2021 11:45 (16 minutes)

Presenter: DONG, Thanh (Duy Tan University)

Session Classification: Rare decays

Contribution ID: 65

Type: **not specified**

Rare decays @ ATLAS & CMS

Monday 13 September 2021 16:05 (16 minutes)

Presenter: CERRI, Alex (University of Sussex (GB))

Session Classification: Rare decays

Contribution ID: **66**

Type: **not specified**

Review of rare charm decays

Thursday 16 September 2021 15:30 (16 minutes)

Presenters: MING-GANG ZHAO; ZHAO, Minggang (Nankai University)

Session Classification: Rare decays

Contribution ID: 67

Type: **not specified**

LHCb results on electroweak penguin decays

Thursday 16 September 2021 15:50 (20 minutes)

Presenter: KREPS, Michal (University of Warwick (GB))

Session Classification: Rare decays

Contribution ID: **68**

Type: **not specified**

Theory overview

Tuesday 14 September 2021 11:25 (20 minutes)

Presenter: HANHART, Christoph (IAS/IKP Forschungszentrum Jülich)

Session Classification: Spectroscopy

Contribution ID: **69**

Type: **not specified**

Latest spectroscopy results from ATLAS

Tuesday 14 September 2021 11:50 (16 minutes)

Presenter: ABBOTT, Braden Keim (University of Oklahoma (US))

Session Classification: Spectroscopy

Contribution ID: 70

Type: **not specified**

Latest spectroscopy results from CMS

Tuesday 14 September 2021 12:10 (16 minutes)

Presenter: LEZKI, Samet (Universita e INFN, Bari (IT))

Session Classification: Spectroscopy

Contribution ID: 71

Type: **not specified**

Recent results on hadron spectroscopy at LHCb

Tuesday 14 September 2021 14:30 (16 minutes)

Presenter: STAHL, Marian (University of Cincinnati (US))

Session Classification: Spectroscopy

Contribution ID: 72

Type: **not specified**

Results from Belle and prospects for Belle2 in spectroscopy

Tuesday 14 September 2021 14:50 (16 minutes)

Presenter: BENNETT, Jake (The University of Mississippi)

Session Classification: Spectroscopy

Contribution ID: 73

Type: **not specified**

XYZ states

Tuesday 14 September 2021 15:10 (16 minutes)

Presenter: MAGGIORA, Marco (Universita e INFN Torino (IT))

Session Classification: Spectroscopy

Contribution ID: 74

Type: **not specified**

New results on light hadron spectroscopy

Tuesday 14 September 2021 15:30 (16 minutes)

Presenter: GARZIA, Isabella (Universita e INFN, Ferrara (IT))

Session Classification: Spectroscopy

Contribution ID: 75

Type: **not specified**

Spectral Clustering for Jet Physics

Thursday 16 September 2021 18:05 (16 minutes)

Presenter: DAY-HALL, Henry (University of Southampton)

Session Classification: Requested talks

Contribution ID: 76

Type: **not specified**

Searching for lepton flavor violating interactions at future electron-positron colliders

Thursday 16 September 2021 18:25 (16 minutes)

Presenter: TIZCHANG, Seddigheh (Institute for Research in Fundamental Sciences (IR))

Session Classification: Requested talks

Contribution ID: 77

Type: **not specified**

Coherent Elastic Neutrino Nucleus Scattering

Friday 17 September 2021 15:50 (16 minutes)

Presenter: HUGHES, Maximilian

Session Classification: Neutrino physics

Contribution ID: 78

Type: **not specified**

Theory of muon $g-2$

Tuesday 14 September 2021 18:15 (16 minutes)

Presenter: TEUBNER, Thomas (University of Liverpool)

Session Classification: Precision lepton measurements