

**The 14th International
Workshop on Tau Lepton
Physics (Tau2016)**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome by IHEP director

Contribution ID: 1

Type: **not specified**

Introduction to Tau2016

Monday, 19 September 2016 08:50 (30 minutes)

Presenter: PASSEMAR, Emilie (Indiana University/JLab)

Session Classification: Welcome and Introduction

Contribution ID: 2

Type: **not specified**

Opening address

Monday, 19 September 2016 08:30 (20 minutes)

Presenter: Prof. WANG, Yifang (IHEP)

Session Classification: Welcome and Introduction

Contribution ID: 3

Type: **not specified**

Predictions on the second-class current decays tau to pi eta' nu

Monday, 19 September 2016 09:20 (25 minutes)

Presenter: GONZÁLEZ-SOLÍS, Sergi (Institute of Theoretical Physics-Chinese Academy of Sciences)

Session Classification: Tau properties

Contribution ID: 4

Type: **not specified**

Study of Michel parameters in leptonic tau decays at Belle

Monday, 19 September 2016 09:45 (25 minutes)

Presenter: EPIFANOV, Denis (Budker Institute of Nuclear Physics)

Session Classification: Tau properties

Contribution ID: 5

Type: **not specified**

Michel parameter measurement by radiative leptonic tau decay

Monday, 19 September 2016 10:10 (25 minutes)

Presenter: SHIMIZU, Nobuhiro (The University of Tokyo)

Session Classification: Tau properties

Contribution ID: 6

Type: **not specified**

Measurement of tau decays into three charged mesons

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: BOBROV, Alexander (Budker Institute of Nuclear Physics)

Session Classification: Poster and reception

Contribution ID: 7

Type: **not specified**

An overview of $\tau \rightarrow (\pi \pi, K \pi, K \eta(\prime)) \nu_\tau$ decays

Monday, 19 September 2016 11:05 (25 minutes)

Presenters: ESCRIBANO, Rafel (Universitat Autònoma de Barcelona); GONZÁLEZ-SOLÍS, Sergi

Session Classification: Tau properties

Contribution ID: 8

Type: **not specified**

Tau lepton production and decays: perspective of multi-dimensional distributions and Monte Carlo methods

Monday, 19 September 2016 11:30 (25 minutes)

Presenter: WAS, Zbigniew (IFJ PAN)

Session Classification: Tau properties

Contribution ID: 9

Type: **not specified**

Precise beam energy measurement in collider experiments

Monday, 19 September 2016 11:55 (25 minutes)

Presenters: Dr ZHANG, Jian-Yong (IHEP); Mr ACHASOV, Mikhail (BINP, Novosibirsk)

Session Classification: Tau properties

Contribution ID: **10**

Type: **not specified**

Inclusive hadronic tau decay determination(s) of V_{us}

Monday, 19 September 2016 14:00 (25 minutes)

Presenter: Prof. MALTMAN, Kim (York University)

Session Classification: Tau properties

Contribution ID: 11

Type: **not specified**

Lattice calculation of V_{us} from inclusive strangeness changing tau decay

Monday, 19 September 2016 14:25 (25 minutes)

Presenter: OKI, Hiroshi (RIKEN BNL Research Center)

Session Classification: Tau properties

Contribution ID: 12

Type: **not specified**

HFAG and PDG tau branching fractions averages and Vus determination from tau data

Monday, 19 September 2016 14:50 (25 minutes)

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

Session Classification: Tau properties

Contribution ID: 13

Type: **not specified**

Review of g-2 theory

Monday, 19 September 2016 15:15 (25 minutes)

Presenter: Dr TEUBNER, Thomas (University of Liverpool)

Session Classification: Lepton g-2

Contribution ID: 14

Type: **not specified**

Review of g-2 predictions with experimental inputs

Tuesday, 20 September 2016 11:55 (25 minutes)

Presenter: Prof. DAVIER, Michel (LAL-Orsay)

Session Classification: Lepton g-2

Contribution ID: 15

Type: **not specified**

The muon g-2 experiment at Fermilab

Tuesday, 20 September 2016 11:05 (25 minutes)

Presenter: MOTT, James (Boston University)

Session Classification: Lepton g-2

Contribution ID: 16

Type: **not specified**

The muon $g-2$ experiment at J-PARC

Tuesday, 20 September 2016 11:30 (25 minutes)

Presenter: SATO, Yutaro (High Energy Accelerator Research Organization Institute of Particle and Nuclear Studies)

Session Classification: Lepton $g-2$

Contribution ID: 17

Type: **not specified**

Lattice calculation for the lowest-order hadronic contribution to muon $g-2$

Monday, 19 September 2016 15:40 (25 minutes)

Presenter: Dr CHAKRABORTY, Bipasha (Jefferson Lab)

Session Classification: Lepton $g-2$

Contribution ID: **18**

Type: **not specified**

Lattice calculation for the light-by-light hadronic contribution to muon $g-2$

Monday, 19 September 2016 16:35 (25 minutes)

Presenter: IZUBUCHI, Taku (Brookhaven National Laboratory)

Session Classification: Lepton $g-2$

Contribution ID: 19

Type: **not specified**

Meson-photon transition form factors and the evaluation of muon $g-2$

Monday, 19 September 2016 17:00 (25 minutes)

Presenter: Dr CAO, Fu-Guang (Massey University)

Session Classification: Lepton $g-2$

Contribution ID: 20

Type: **not specified**

Anomalous magnetic and weak anomalous magnetic dipole moments of the tau lepton in the simplest little Higgs model

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: ARROYO, Marco

Session Classification: Poster and reception

Contribution ID: 21

Type: **not specified**

Analysis of $\gamma\gamma\rightarrow J/\psi\gamma$

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: SEINO, Yoshiaki (Niigata University)

Session Classification: Poster and reception

Contribution ID: 22

Type: **not specified**

Pion form factor measurement and ISR at BESIII

Monday, 19 September 2016 17:25 (25 minutes)

Presenter: Mr WANG, Yaqian (KPH)

Session Classification: Lepton g-2

Contribution ID: 23

Type: **not specified**

QCD and R value measurement at BESIII

Tuesday, 20 September 2016 09:45 (25 minutes)

Presenter: Prof. HU, Haiming (IHEP, CAS)

Session Classification: Lepton g-2

Contribution ID: 24

Type: **not specified**

New ISR cross section results on $K_S K_L \pi^0$, $K_S K_L 2\pi^0$ from BaBar

Friday, 23 September 2016 11:45 (25 minutes)

Presenter: Prof. GRADL, Wolfgang (Institute of Nuclear Physics, Johannes-Gutenberg University Mainz)

Session Classification: New physics involving tau

Contribution ID: 25

Type: **not specified**

New ISR cross section results on $\pi^+\pi^-\pi^0\pi^0$ and $\pi^+\pi^-\eta$ from BaBar

Monday, 19 September 2016 17:50 (25 minutes)

Presenter: GRIESSINGER, Konrad (Johannes Gutenberg University of Mainz)

Session Classification: Lepton g-2

Contribution ID: 26

Type: **not specified**

New e+e- to hadronic results from CMD-3

Tuesday, 20 September 2016 08:55 (25 minutes)

Presenter: Prof. EIDELMAN, Simon (Budker Institute and Novosibirsk State University)

Session Classification: Lepton g-2

Contribution ID: 27

Type: **not specified**

Recent e+e- to hadronic results from SND at VEPP-2000 collider

Tuesday, 20 September 2016 08:30 (25 minutes)

Presenters: Mr ACHASOV, Mikhail (BINP, Novosibirsk); DIMOVA, Tatyana (Budker Institute of Nuclear Physics)

Session Classification: Lepton g-2

Contribution ID: 28

Type: **not specified**

R measurement between 1.8 and 3.7 GeV at KEDR

Tuesday, 20 September 2016 09:20 (25 minutes)

Presenter: Prof. EIDELMAN, Simon (Budker Institute and Novosibirsk State University)

Session Classification: Lepton g-2

Contribution ID: 29

Type: **not specified**

High-luminosity e+e- collider at low energy

Tuesday, 20 September 2016 10:40 (25 minutes)

Presenter: Dr BOGOMYAGKOV, Anton (BINP)

Session Classification: Lepton g-2

Contribution ID: 30

Type: **not specified**

QCD perturbative series in hadronic tau decays and scheme variations of the coupling

Tuesday, 20 September 2016 14:00 (25 minutes)

Presenter: BOITO, Diogo (Instituto de Física de São Carlos - Universidade de São Paulo)

Session Classification: QCD

Contribution ID: 31

Type: **not specified**

Five-Loop Running of the QCD coupling constant

Tuesday, 20 September 2016 14:25 (25 minutes)

Presenter: KUEHN, Johann (KIT)

Session Classification: QCD

Contribution ID: 32

Type: **not specified**

Determination of the QCD Coupling from ALEPH tau Decay Data

Tuesday, 20 September 2016 14:50 (25 minutes)

Presenter: RODRÍGUEZ, Antonio (IFIC (CSIC-Univ Valencia))

Session Classification: QCD

Contribution ID: 33

Type: **not specified**

The status of the strong coupling from tau decays in 2016

Tuesday, 20 September 2016 15:15 (25 minutes)

Presenter: GOLTERMAN, Maarten (San Francisco State University)

Session Classification: QCD

Contribution ID: 34

Type: **not specified**

Strong isospin breaking at production of light scalars

Tuesday, 20 September 2016 16:10 (25 minutes)

Presenter: Prof. ACHASOV, Nikolay (Sobolev Institute for Mathematics)

Session Classification: QCD

Contribution ID: 35

Type: **not specified**

Measurement of the running of the fine structure constant and gamma-gamma physics at KLOE

Tuesday, 20 September 2016 16:35 (25 minutes)

Presenter: MANDAGLIO, Giuseppe (University of Messina)

Session Classification: QCD

Contribution ID: **36**

Type: **not specified**

Two photon program at BESIII

Tuesday, 20 September 2016 17:00 (25 minutes)

Presenter: Dr REDMER, Christoph Florian (Johannes Gutenberg University of Mainz)

Session Classification: QCD

Contribution ID: 37

Type: **not specified**

New e+e- to hadronic results from Belle

Tuesday, 20 September 2016 17:25 (25 minutes)

Presenter: Dr SHEN, Chengping (Beihang University)

Session Classification: QCD

Contribution ID: **38**

Type: **not specified**

Measurement of $B \rightarrow D^{(*)} \tau \nu$ at Belle

Tuesday, 20 September 2016 17:50 (25 minutes)

Presenter: HIROSE, Shigeki (Nagoya University)

Session Classification: QCD

Contribution ID: 39

Type: **not specified**

Tau trigger and Identification at CMS in Run II

Wednesday, 21 September 2016 08:30 (25 minutes)

Presenter: DAVIGNON, Olivier (Laboratoire Leprince-Ringuet, Ecole Polytechnique, CNRS-IN2P3)

Session Classification: Standard Model measurements with taus

Contribution ID: 40

Type: **not specified**

Tau reconstruction at ATLAS

Wednesday, 21 September 2016 08:55 (25 minutes)

Presenters: GALEA, Cristina (Nikhef/RU Nijmegen); ZANZI, Daniele (the University of Melbourne)

Session Classification: Standard Model measurements with taus

Contribution ID: 41

Type: **not specified**

Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector

Wednesday, 21 September 2016 09:20 (25 minutes)

Presenter: BANERJEE, Swagato (University of Louisville)

Session Classification: Standard Model measurements with taus

Contribution ID: 42

Type: **not specified**

Search for the Standard Model Higgs boson in the di-tau decay channel with the ATLAS detector

Wednesday, 21 September 2016 09:45 (25 minutes)

Presenter: Prof. O'NEIL, Dugan (Simon Fraser University)

Session Classification: Standard Model measurements with taus

Contribution ID: 43

Type: **not specified**

Measurement of Higgs couplings and CP using tau lepton at LHC

Wednesday, 21 September 2016 10:40 (25 minutes)

Presenter: ZANZI, Daniele (the University of Melbourne)

Session Classification: Standard Model measurements with taus

Contribution ID: 44

Type: **not specified**

Perspective for a measurement of tau-Polarisation in Z \rightarrow tau tau with CMS

Wednesday, 21 September 2016 11:05 (25 minutes)

Presenter: CHEREPANOV, Vladimir (RWTH Aachen)

Session Classification: Standard Model measurements with taus

Contribution ID: 45

Type: **not specified**

Higgs decays to tau leptons in the Standard Model and beyond

Wednesday, 21 September 2016 11:30 (25 minutes)

Presenter: DODD, Laura (University of Wisconsin-Madison)

Session Classification: Standard Model measurements with taus

Contribution ID: 46

Type: **not specified**

Search for new physics with tau final states at 13 TeV

Wednesday, 21 September 2016 11:55 (25 minutes)

Presenter: MAO, Zaixing (Brown University)

Session Classification: Standard Model measurements with taus

Contribution ID: 47

Type: **not specified**

Mass hierarchy

Wednesday, 21 September 2016 12:20 (30 minutes)

Presenter: THOMAS, Jennifer

Session Classification: Standard Model measurements with taus

Contribution ID: 48

Type: **not specified**

Neutrino phenomenology/theory overview

Thursday, 22 September 2016 08:30 (30 minutes)

Presenter: Dr ZHOU, Shun (高能所)

Session Classification: Neutrino

Contribution ID: 49

Type: **not specified**

T2K: Recent results and status

Thursday, 22 September 2016 09:00 (30 minutes)

Presenter: Prof. BRAVAR, Alessandro (Univ. Geneva)

Session Classification: Neutrino

Contribution ID: 50

Type: **not specified**

NOVA: Recent results and status

Contribution ID: 51

Type: **not specified**

Sterile neutrino searches: experiment and theory

Thursday, 22 September 2016 09:30 (30 minutes)

Presenter: Dr GIUNTI, Carlo (INFN)

Session Classification: Neutrino

Contribution ID: 52

Type: **not specified**

Results from IceCube

Thursday, 22 September 2016 10:30 (25 minutes)

Presenter: Dr XU, Donglian (University of Wisconsin - Madison)

Session Classification: Neutrino

Contribution ID: 53

Type: **not specified**

Overview of reactor experiments

Thursday, 22 September 2016 10:55 (30 minutes)

Presenter: WONG, Chan Fai (Sun Yat-Sen University)

Session Classification: Neutrino

Contribution ID: 54

Type: **not specified**

Status of JUNO

Thursday, 22 September 2016 11:25 (25 minutes)

Presenter: Mr LU, Haoqi (高能所)

Session Classification: Neutrino

Contribution ID: 55

Type: **not specified**

Atmospheric neutrino and proton decay at Super-Kamiokande and Hyper-Kamiokande

Thursday, 22 September 2016 11:50 (30 minutes)

Presenter: LI, Zepeng

Session Classification: Neutrino

Contribution ID: 56

Type: **not specified**

Status of the LBL experiment DUNE

Thursday, 22 September 2016 14:00 (25 minutes)

Presenter: Prof. PAOLONE, Vittorio (University of Pittsburgh)

Session Classification: Neutrino

Contribution ID: 57

Type: **not specified**

High-energy neutrino searches with ANTARES and KM3NeT/ARCA detectors

Contribution ID: 58

Type: **not specified**

SHiP: a new facility with a dedicated detector for studying tau neutrino properties

Thursday, 22 September 2016 14:25 (25 minutes)

Presenter: KOMATSU, Masahiro (Nagoya University)

Session Classification: Neutrino

Contribution ID: 59

Type: **not specified**

Neutrino experimental review/summary

Thursday, 22 September 2016 14:50 (30 minutes)

Presenter: LINK, Jonathan

Session Classification: Neutrino

Contribution ID: 60

Type: **not specified**

Lepton flavor violating tau decays and $H \rightarrow \tau \mu$ in the Simplest Little Higgs Model

Thursday, 22 September 2016 15:20 (25 minutes)

Presenter: ROIG, Pablo (Cinvestav, Mexico)

Session Classification: New physics involving tau

Contribution ID: 61

Type: **not specified**

Search for Lepton Flavor Violation in Z and Higgs decays with the CMS Experiment

Thursday, 22 September 2016 16:15 (25 minutes)

Presenter: NEHRKORN, Alexander (RWTH Aachen University)

Session Classification: New physics involving tau

Contribution ID: 62

Type: **not specified**

Search for lepton flavour violation in Higgs and Z' decays with the ATLAS detector at the LHC

Thursday, 22 September 2016 16:40 (25 minutes)

Presenter: Dr LIU, Minghui (中国科学技术大学)

Session Classification: New physics involving tau

Contribution ID: 63

Type: **not specified**

LFV in tau decays: Results and prospects at the LHC

Thursday, 22 September 2016 17:05 (25 minutes)

Presenter: DE BRUYN, Kristof

Session Classification: New physics involving tau

Contribution ID: 64

Type: **not specified**

Lepton Flavour Violation at Belle and Belle II

Thursday, 22 September 2016 17:30 (25 minutes)

Presenter: Prof. EIDELMAN, Simon (Budker Institute and Novosibirsk State University)

Session Classification: New physics involving tau

Contribution ID: 65

Type: **not specified**

Summary

Friday, 23 September 2016 12:10 (40 minutes)

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

Session Classification: Summary

Contribution ID: **66**

Type: **not specified**

Status of Mu3e

Friday, 23 September 2016 08:30 (30 minutes)

Presenter: Prof. BRAVAR, Alessandro (Univ. Geneva)

Session Classification: New physics involving tau

Contribution ID: 67

Type: **not specified**

Search for Muon to Electron Conversion at J-PARC: COMET Experiment

Friday, 23 September 2016 09:00 (25 minutes)

Presenter: Mr WU, Chen (Nanjing University)

Session Classification: New physics involving tau

Contribution ID: **68**

Type: **not specified**

Status of MEG

Contribution ID: 69

Type: **not specified**

Tests of lepton universality at LHCb

Friday, 23 September 2016 09:25 (30 minutes)

Presenter: DE BRUYN, Kristof

Session Classification: New physics involving tau

Contribution ID: 70

Type: **not specified**

Solutions to the $R(D)$ and $R(D^*)$ anomalies and their phenomenological implications

Friday, 23 September 2016 09:55 (25 minutes)

Presenter: Dr LI, Xinqiang (Central China Normal University)

Session Classification: New physics involving tau

Contribution ID: 71

Type: **not specified**

Dark sector and Light New Physics searches in BaBar

Friday, 23 September 2016 10:50 (30 minutes)

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

Session Classification: New physics involving tau

Contribution ID: 72

Type: **not specified**

Search for heavy Higgs and Supersymmetric particles with the ATLAS detector at the LHC

Friday, 23 September 2016 11:20 (25 minutes)

Presenter: REECE, Ryan

Session Classification: New physics involving tau

Contribution ID: 73

Type: **not specified**

Introduction to CPC

Tuesday, 20 September 2016 12:20 (10 minutes)

Presenter: NICHOLSON, Caitriana (IHEP - Chinese Physics C)

Session Classification: Lepton g-2

Contribution ID: 74

Type: **not specified**

The $h \rightarrow \mu \tau$ decay in a two Higgs doublets model with a fourth generation of fermions

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: MOYOTL-ACUAHUITL, Agustin (CINVESTAV)

Session Classification: Poster and reception

Contribution ID: 75

Type: **not specified**

Electromagnetic and weak electromagnetic dipole moments of the tau lepton in two-Higgs doublet model with textures

Presenter: ARROYO, Marco

Contribution ID: 76

Type: **not specified**

The study of the process $e^+e^- \rightarrow K^+K^-\pi^0$ with CMD3 detector

Presenter: EROFEEV, Andrei (Budker Institute of Nuclear Physics)

Contribution ID: 77

Type: **not specified**

Study of tau -> 3lep 2nu decays at Belle

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: SASAKI, Junya (The University of Tokyo)

Session Classification: Poster and reception

Contribution ID: 78

Type: **not specified**

Study of tau \rightarrow pi lep+ lep- nu at Belle

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: Mr JIN, Yifan (the University of Tokyo)

Session Classification: Poster and reception

Contribution ID: 79

Type: **not specified**

MC study for the lepton flavor violating tau decay into a lepton and an undetectable particle

Monday, 19 September 2016 19:00 (2h 30m)

Presenter: YOSHINOBU, Toshiki

Session Classification: Poster and reception