

Lake Louise Winter Institute 2019



Report of Contributions

Contribution ID: **92**

Type: **not specified**

LHC Physics

Monday, 11 February 2019 08:30 (1 hour)

Presenter: SWAIN, Sanjay Kumar (National Institute of Science Education and Research (IN))

Session Classification: Monday

Contribution ID: **93**

Type: **not specified**

Flavor physics review

Tuesday, 12 February 2019 08:30 (1 hour)

Presenter: F. KAMENIK, Jernej (Jozef Stefan Institute)

Session Classification: Tuesday

Contribution ID: 94

Type: **not specified**

Results from Fermi-LAT

Tuesday, 12 February 2019 20:45 (45 minutes)

Presenter: Dr CAPUTO, Regina (GSFC/UMCP)

Session Classification: Tuesday

Contribution ID: 95

Type: **not specified**

Recent results in multi-messenger astronomy: the IceCube neutrino signal

Tuesday, 12 February 2019 20:00 (45 minutes)

Presenter: RESCONI, Elisa

Session Classification: Tuesday

Contribution ID: 96

Type: **not specified**

What can one learn from precise atomic measurements in Penning traps?

Wednesday, 13 February 2019 08:30 (1 hour)

Presenter: BLAUM, Klaus

Session Classification: Wednesday

Contribution ID: 97

Type: **not specified**

Review of neutrino physics

Wednesday, 13 February 2019 09:30 (1 hour)

Presenter: YÁÑEZ, Juan Pablo

Session Classification: Wednesday

Contribution ID: **98**

Type: **not specified**

Higgs boson and the Early Universe

Thursday, 14 February 2019 11:05 (1 hour)

Presenter: BEZRUKOV, Fedor (University of Manchester (GB))

Session Classification: Thursday

Contribution ID: 99

Type: **not specified**

Future Cosmological Probes of High Energy Physics

Friday, 15 February 2019 08:30 (1 hour)

Presenter: GREEN, Daniel

Session Classification: Friday

Contribution ID: **100**

Type: **not specified**

High precision physics at the LHC

Friday, 15 February 2019 09:30 (1 hour)

Presenter: MELNIKOV, Kirill (Karlsruhe Institute of Technology, Germany)

Session Classification: Friday

Contribution ID: **101**

Type: **not specified**

Higgs Boson Measurements at the High-Luminosity LHC with CMS

Monday, 11 February 2019 09:30 (15 minutes)

Presenter: Prof. BEHERA, Prafulla (Indian Institute of Technology Madras (IN))

Session Classification: Monday

Contribution ID: **102**

Type: **not specified**

Measurement of cross sections and properties of the Higgs boson in decays to bosons with the ATLAS experiment

Monday, 11 February 2019 09:45 (15 minutes)

Presenter: TURRA, Ruggero (Università degli Studi e INFN Milano (IT))

Session Classification: Monday

Contribution ID: **103**

Type: **not specified**

HH production at Run 2 and perspectives for the High-Luminosity LHC with CMS

Monday, 11 February 2019 10:00 (14 minutes)

Presenter: CORCODILOS, Lucas (Johns Hopkins University (US))

Session Classification: Monday

Contribution ID: **104**

Type: **not specified**

Higgs boson decays to two fermions and Higgs boson production in association with $t\bar{t}H$ at the ATLAS experiment

Monday, 11 February 2019 10:15 (15 minutes)

Presenter: HIROSE, Shigeki (Albert Ludwigs Universitaet Freiburg (DE))

Session Classification: Monday

Contribution ID: **105**

Type: **not specified**

Observation of Hbb at CMS

Monday, 11 February 2019 10:45 (15 minutes)

Presenter: BERGER, Pirmin (ETH Zurich (CH))

Session Classification: Monday

Contribution ID: **106**

Type: **not specified**

Measuring the Higgs boson width and anomalous HVV couplings in production and decay with CMS

Monday, 11 February 2019 11:00 (15 minutes)

Presenter: ROSKES, Heshy (Johns Hopkins University (US))

Session Classification: Monday

Contribution ID: **107**

Type: **not specified**

Performance Optimisation of the CMS Electromagnetic Calorimeter to measure Higgs properties during Phase I and Phase II of the LHC

Monday, 11 February 2019 11:15 (15 minutes)

Presenter: ANDREWS, Michael (Carnegie-Mellon University (US))

Session Classification: Monday

Contribution ID: **108**

Type: **not specified**

The role of the CMS trigger in the recent Higgs sector observations and in the searches for new resonances during LHC Run II

Monday, 11 February 2019 11:30 (15 minutes)

Presenter: MARTIN PEREZ, Cristina (Centre National de la Recherche Scientifique (FR))

Session Classification: Monday

Contribution ID: **109**

Type: **not specified**

Precision Timing with the CMS MIP Timing Detector

Monday, 11 February 2019 11:45 (15 minutes)

Presenter: MONTI, Fabio (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Monday

Contribution ID: **110**

Type: **not specified**

Dark matter review

Monday, 11 February 2019 17:30 (1 hour)

Presenter: DAHL, C Eric (Northwestern University)

Session Classification: Monday

Contribution ID: **111**

Type: **not specified**

Searching for Nuclear Recoils from Dark Matter with SuperCDMS

Monday, 11 February 2019 18:30 (15 minutes)

Presenter: MICHIELIN, Emanuele

Session Classification: Monday

Contribution ID: 112

Type: **not specified**

Dark Photon and Electron Recoil Dark Matter Signatures in SuperCDMS

Monday, 11 February 2019 18:45 (15 minutes)

Presenter: WILLS, Lise

Session Classification: Monday

Contribution ID: 113

Type: **not specified**

Latest Results from the Dark Matter Search with DEAP-3600 at SNOLAB

Monday, 11 February 2019 19:00 (15 minutes)

Presenter: STAINFORTH, Robert (Carleton University)

Session Classification: Monday

Contribution ID: **114**

Type: **not specified**

Status of the NEWS-G Dark Matter Experiment

Monday, 11 February 2019 19:15 (15 minutes)

Presenter: DURNFORD, Daniel (Queen's University)

Session Classification: Monday

Contribution ID: 115

Type: **not specified**

Searching for Dark Matter with the ATLAS Detector

Tuesday, 12 February 2019 17:30 (15 minutes)

Presenter: CARLSON, Ben (University of Pittsburgh)

Session Classification: Tuesday

Contribution ID: **116**

Type: **not specified**

PICO

Tuesday, 12 February 2019 17:45 (15 minutes)

Presenter: FALLOWS, Scott (University of Alberta)

Session Classification: Tuesday

Contribution ID: **117**

Type: **not specified**

COSINE-100

Tuesday, 12 February 2019 18:00 (15 minutes)

Presenter: DESOUZA, Estella

Session Classification: Tuesday

Contribution ID: **118**

Type: **not specified**

CRESST-III

Tuesday, 12 February 2019 18:15 (15 minutes)

Presenter: FERREIRO, Nahuel

Session Classification: Tuesday

Contribution ID: **119**

Type: **not specified**

Darkside

Session Classification: Tuesday

Contribution ID: **120**

Type: **not specified**

ALICE

Saturday, 16 February 2019 09:00 (15 minutes)

Presenter: LAI, Yue Shi (Lawrence Berkeley National Lab. (US))

Session Classification: Saturday

Contribution ID: **121**

Type: **not specified**

Electromagnetic Probes Highlights from PHENIX

Saturday, 16 February 2019 09:30 (15 minutes)

Presenter: ROMAN, Veronica Canoa

Session Classification: Saturday

Contribution ID: 122

Type: **not specified**

The Mu2e Experiment: A Search for Charge Lepton Flavor Violation

Saturday, 16 February 2019 10:15 (15 minutes)

Presenter: AMBROSE , Daniel

Session Classification: Saturday

Contribution ID: **123**

Type: **not specified**

BESIII

Session Classification: Saturday

Contribution ID: **124**

Type: **not specified**

NA62

Saturday, 16 February 2019 10:30 (15 minutes)

Presenter: VELGHE, Bob (TRIUMF (CA))

Session Classification: Saturday

Contribution ID: **125**

Type: **not specified**

BESIII

Session Classification: Saturday

Contribution ID: **126**

Type: **not specified**

BESIII

Session Classification: Saturday

Contribution ID: **127**

Type: **not specified**

CLIC

Session Classification: Saturday

Contribution ID: **128**

Type: **not specified**

Lepton Flavour Universality tests at LHCb

Tuesday, 12 February 2019 09:30 (15 minutes)

Presenter: MULDER, Mick (Nikhef National institute for subatomic physics (NL))

Session Classification: Tuesday

Contribution ID: **129**

Type: **not specified**

CP violation in B decays at LHCb

Tuesday, 12 February 2019 09:45 (15 minutes)

Presenter: PULLEN, Hannah

Session Classification: Tuesday

Contribution ID: **130**

Type: **not specified**

Rare and very rare decays at LHCb

Tuesday, 12 February 2019 10:15 (15 minutes)

Presenter: LANCIERINI, Davide (Universitaet Zuerich (CH))

Session Classification: Tuesday

Contribution ID: **131**

Type: **not specified**

LHCb results on Mixing and CP violation in Charm

Tuesday, 12 February 2019 10:00 (15 minutes)

Presenter: MACCOLINI, Serena (Universita e INFN, Bologna (IT))

Session Classification: Tuesday

Contribution ID: **132**

Type: **not specified**

LHCb results from Heavy quark spectroscopy, exotic states and QCD

Tuesday, 12 February 2019 11:30 (15 minutes)

Presenter: MACKO, Vladimir (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: Tuesday

Contribution ID: 133

Type: **not specified**

Evidence of a charmless baryonic decay B^0 to $p \bar{p} \pi^0$

Tuesday, 12 February 2019 10:45 (15 minutes)

Presenter: PAL, Bilas (Syracuse University (US))

Session Classification: Tuesday

Contribution ID: 134

Type: **not specified**

Measurement of $B \rightarrow KS KS K$ at Belle

Tuesday, 12 February 2019 11:00 (15 minutes)

Presenter: BEHERA, Prafulla (Indian Institute of Technology Madras (IN))

Session Classification: Tuesday

Contribution ID: 135

Type: **not specified**

Recent results of many-body baryonic B decays from Belle

Tuesday, 12 February 2019 11:15 (15 minutes)

Presenter: WANG, Min-Zu (National Taiwan Univ.)

Session Classification: Tuesday

Contribution ID: **136**

Type: **not specified**

Recents results from ATLAS in beauty and charm physics

Tuesday, 12 February 2019 11:45 (15 minutes)

Presenter: RUSSELL, Heather (McGill University (CA))

Session Classification: Tuesday

Contribution ID: **137**

Type: **not specified**

Heavy ion and fixed target results at LHCb

Saturday, 16 February 2019 09:15 (15 minutes)

Presenter: LI, Hengne (South China Normal University (CN))

Session Classification: Saturday

Contribution ID: **138**

Type: **not specified**

Probing perturbative QCD at the ATLAS Experiment

Friday, 15 February 2019 10:45 (15 minutes)

Presenter: BEAUCHEMIN, Pierre-Hugues (Tufts University (US))

Session Classification: Friday

Contribution ID: 139

Type: **not specified**

Tests of the electroweak sector sector with diboson final states at the ATLAS Experiment

Friday, 15 February 2019 11:00 (15 minutes)

Presenter: YAP, Yee Chinn (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Friday

Contribution ID: **140**

Type: **not specified**

Tests of the electroweak sector sector through precision measurements at the ATLAS Experiment

Friday, 15 February 2019 11:15 (15 minutes)

Presenter: MANJARRES, Joany (Technische Universitaet Dresden (DE))

Session Classification: Friday

Contribution ID: **141**

Type: **not specified**

Measurements of jet substructure observables at the ATLAS experiment

Friday, 15 February 2019 11:30 (15 minutes)

Presenter: CAMPANELLI, Mario (University College London (UK))

Session Classification: Friday

Contribution ID: 142

Type: **not specified**

Highlights of top quark cross-section measurements at ATLAS

Friday, 15 February 2019 11:45 (15 minutes)

Presenter: ROMANO, Marino

Session Classification: Friday

Contribution ID: 143

Type: **not specified**

Highlights of top quark properties measurements at ATLAS

Friday, 15 February 2019 18:00 (15 minutes)

Presenter: HAWKINGS, Richard (CERN)

Session Classification: Friday

Contribution ID: **144**

Type: **not specified**

Rare single top processes at CMS

Friday, 15 February 2019 18:30 (15 minutes)

Presenter: Mr TONON, Nicolas (Centre National de la Recherche Scientifique (FR))

Session Classification: Friday

Contribution ID: 145

Type: **not specified**

Recent results on tau-lepton decays with the BABAR detector

Friday, 15 February 2019 18:45 (15 minutes)

Presenter: VASSEUR, Georges (Université Paris-Saclay (FR))

Session Classification: Friday

Contribution ID: **146**

Type: **not specified**

Search for a stable six-quark state in Upsilon decays at BaBar

Session Classification: Friday

Contribution ID: **147**

Type: **not specified**

Study of $e^+e^- \rightarrow e^+e^-\eta'$ in the double-tag mode at BABAR

Session Classification: Friday

Contribution ID: **148**

Type: **not specified**

First results from Belle II commissioning run

Friday, 15 February 2019 19:15 (15 minutes)

Presenter: KANDRA, Jakub

Session Classification: Friday

Contribution ID: **149**

Type: **not specified**

Super KEKB and Belle II status and plans

Friday, 15 February 2019 19:00 (15 minutes)

Presenter: CUESTA, Daniel

Session Classification: Friday

Contribution ID: **150**

Type: **not specified**

B physics re-discoveries with Belle II

Friday, 15 February 2019 19:30 (15 minutes)

Presenter: GANIEV, Eldar (Budker Institute of Nuclear Physics (RU))

Session Classification: Friday

Contribution ID: **151**

Type: **not specified**

Exploring the extended scalar sector of the Standard Model

Thursday, 14 February 2019 18:00 (15 minutes)

Presenter: SAGGIO, Alessia (Universite Catholique de Louvain (UCL) (BE))

Session Classification: Thursday

Contribution ID: **152**

Type: **not specified**

Inclusive searches for squarks and gluinos with the ATLAS detector

Thursday, 14 February 2019 18:30 (15 minutes)

Presenter: KUWERTZ, Emma Sian (CERN)

Session Classification: Thursday

Contribution ID: 153

Type: **not specified**

Searches for supersymmetry in electroweak production, R-parity violating signatures, and events with long-lived particles with the ATLAS detector

Thursday, 14 February 2019 19:15 (15 minutes)

Presenter: HOOBERMAN, Benjamin Henry (Univ. Illinois at Urbana Champaign (US))

Session Classification: Thursday

Contribution ID: 154

Type: **not specified**

Search for BSM Physics using Challenging Signatures with the ATLAS detector

Thursday, 14 February 2019 19:00 (15 minutes)

Summary

Presenter: LUTZ, Margaret Susan (University of Massachusetts (US))

Session Classification: Thursday

Contribution ID: 155

Type: **not specified**

Searching for leptoquarks with the ATLAS detector

Thursday, 14 February 2019 18:45 (15 minutes)

Presenter: LENEY, Katharine (Southern Methodist University (US))

Session Classification: Thursday

Contribution ID: **156**

Type: **not specified**

Beyond-Standard-Model Physics at the High-Luminosity LHC with the CMS detector

Thursday, 14 February 2019 18:15 (15 minutes)

Presenter: PRESILLA, Matteo (Universita e INFN, Padova (IT))

Session Classification: Thursday

Contribution ID: **157**

Type: **not specified**

Borexino - latest solar neutrino results

Wednesday, 13 February 2019 10:45 (15 minutes)

Presenter: D'ANGELO, Davide (Universita' degli Studi Milano)

Session Classification: Wednesday

Contribution ID: **158**

Type: **not specified**

ANTARES/KM3NeT

Wednesday, 13 February 2019 11:15 (20 minutes)

Presenter: Dr G. RUIZ, Rodrigo (IPHC)

Session Classification: Wednesday

Contribution ID: **159**

Type: **not specified**

RENO

Wednesday, 13 February 2019 17:00 (15 minutes)

Presenter: SEO, Hyunkwan

Session Classification: Wednesday

Contribution ID: **160**

Type: **not specified**

The Latest Neutrino Oscillation Results from Daya Bay

Wednesday, 13 February 2019 11:50 (15 minutes)

Summary

Presenter: CHEN, Shaomin

Session Classification: Wednesday

Contribution ID: **161**

Type: **not specified**

Double Chooz

Session Classification: Wednesday

Contribution ID: **162**

Type: **not specified**

JUNO

Wednesday, 13 February 2019 17:30 (15 minutes)

Presenter: DING, Xuefeng

Session Classification: Wednesday

Contribution ID: **163**

Type: **not specified**

PROSPECT

Wednesday, 13 February 2019 17:45 (15 minutes)

Presenter: PALOMINO , Jose

Session Classification: Wednesday

Contribution ID: **164**

Type: **not specified**

Recent results from MicroBooNE

Thursday, 14 February 2019 08:45 (15 minutes)

Presenter: GUZOWSKI, Pawel (University of Manchester)

Session Classification: Thursday

Contribution ID: **165**

Type: **not specified**

Latest T2K results and status

Thursday, 14 February 2019 09:00 (15 minutes)

Presenter: ZALIPSKA, Joanna

Session Classification: Thursday

Contribution ID: **166**

Type: **not specified**

NOvA/DUNE

Wednesday, 13 February 2019 19:15 (25 minutes)

Presenter: DJURCIC, Zelimir (Argonne National Laboratory)

Session Classification: Wednesday

Contribution ID: **167**

Type: **not specified**

DUNE

Session Classification: Thursday

Contribution ID: **168**

Type: **not specified**

ANNIE

Wednesday, 13 February 2019 18:30 (15 minutes)

Presenter: FISCHER, Vincent (University of California at Davis)

Session Classification: Wednesday

Contribution ID: **169**

Type: **not specified**

WATCHMAN

Session Classification: Wednesday

Contribution ID: **170**

Type: **not specified**

(n)EXO

Thursday, 14 February 2019 09:15 (15 minutes)

Presenter: VEERARAGHAVAN, Venkatesh

Session Classification: Thursday

Contribution ID: 171

Type: **not specified**

Results from the CUORE experiment

Thursday, 14 February 2019 09:30 (15 minutes)

Presenter: VIGNATI, Marco (INFN - National Institute for Nuclear Physics)

Session Classification: Thursday

Contribution ID: 172

Type: **not specified**

CUPID-0: cryogenic calorimeters with particle identification for double beta decay search.

Thursday, 14 February 2019 10:00 (15 minutes)

Presenter: CASALI , Nicola

Session Classification: Thursday

Contribution ID: 173

Type: **not specified**

Gerda

Session Classification: Thursday

Contribution ID: **174**

Type: **not specified**

Majorana

Thursday, 14 February 2019 10:30 (15 minutes)

Presenter: GILLISS, Thomas (University of North Carolina at Chapel Hill)

Session Classification: Thursday

Contribution ID: **175**

Type: **not specified**

Project 8

Wednesday, 13 February 2019 19:00 (15 minutes)

Presenter: BUZINSKY, Nicholas

Session Classification: Wednesday

Contribution ID: **176**

Type: **not specified**

GERDA and LEGEND

Thursday, 14 February 2019 10:45 (20 minutes)

Presenter: SCHULZ, Oliver (MPI for Physics, Munich)

Session Classification: Thursday

Contribution ID: 177

Type: **not specified**

Towards a neutrino mass measurement with the KATRIN experiment

Wednesday, 13 February 2019 18:45 (15 minutes)

Presenter: HICKFORD, Stephanie

Session Classification: Wednesday

Contribution ID: **178**

Type: **not specified**

SNO+

Thursday, 14 February 2019 09:45 (15 minutes)

Presenter: GILJE, Karin

Session Classification: Thursday

Contribution ID: **179**

Type: **not specified**

KM3NeT

Session Classification: Wednesday

Contribution ID: **180**

Type: **not specified**

IceCube

Session Classification: Wednesday

Contribution ID: **181**

Type: **not specified**

Borexino - Strategy for CNO solar neutrino detection

Wednesday, 13 February 2019 11:00 (15 minutes)

Presenter: BASILICO, Davide (University of Milan)

Session Classification: Wednesday

Contribution ID: **182**

Type: **not specified**

RNO - the Radio Neutrino Observatory

Wednesday, 13 February 2019 11:35 (15 minutes)

Presenter: DEACONU, Cosmin (UChicago)

Session Classification: Wednesday

Contribution ID: **183**

Type: **not specified**

Daya Bay - II

Wednesday, 13 February 2019 17:15 (15 minutes)

Presenter: WHITE, Christopher (IIT)

Session Classification: Wednesday

Contribution ID: **184**

Type: **not specified**

Status of NEOS Experiment

Wednesday, 13 February 2019 18:00 (15 minutes)

Presenter: KIM, Jinyu

Session Classification: Wednesday

Contribution ID: **185**

Type: **not specified**

Studying Single-Phase LArTPC Detectors With MicroBooNE

Thursday, 14 February 2019 08:30 (15 minutes)

Presenter: BARNES, Christopher

Session Classification: Thursday

Contribution ID: **186**

Type: **not specified**

R measurements at BESIII

Saturday, 16 February 2019 10:00 (15 minutes)

Presenter: ROSNER, Christoph

Session Classification: Saturday

Contribution ID: **187**

Type: **not specified**

XENON1T

Tuesday, 12 February 2019 18:30 (15 minutes)

Presenter: SHOCKLEY, Evan (U)

Session Classification: Tuesday

Contribution ID: **188**

Type: **not specified**

Measurements of $t\bar{t}H$ at CMS

Friday, 15 February 2019 18:15 (15 minutes)

Presenter: PATA, Josep (California Institute of Technology (US))

Session Classification: Friday