

Lake Louise Winter Institute 2024



Report of Contributions

Contribution ID: **363**

Type: **not specified**

Physics at LHC

Monday 19 February 2024 08:35 (1 hour)

Presenter: ALISON, John (Carnegie-Mellon University (US))

Session Classification: Monday

Contribution ID: **364**

Type: **not specified**

Dark matter search with JWST

Monday 19 February 2024 17:00 (1 hour)

Presenter: ILIE, Cosmin (Colgate University)

Session Classification: Monday

Contribution ID: **365**

Type: **not specified**

High precision physics at LHC

Tuesday 20 February 2024 09:30 (1 hour)

Presenter: MELNIKOV, Kirill (KIT)

Session Classification: Tuesday

Contribution ID: **366**

Type: **not specified**

Hawking radiation and the time evolution of an analogue black hole

Tuesday 20 February 2024 20:00 (1 hour)

Presenter: STEINHAUER, Jeff

Session Classification: Tuesday

Contribution ID: **367**

Type: **not specified**

Gravitational Labs for Nuclear Physics

Tuesday 20 February 2024 21:00 (1 hour)

Summary

Presenter: ESSICK, Reed

Session Classification: Tuesday

Contribution ID: **368**

Type: **not specified**

Advances and perspectives of Neutrino Physics Experiments

Wednesday 21 February 2024 17:25 (1 hour)

Presenter: SCHUKRAFT, Anne

Session Classification: Wednesday

Contribution ID: **369**

Type: **not specified**

Flavor physics

Wednesday 21 February 2024 08:30 (1 hour)

Presenter: LENZ, Alexander

Session Classification: Wednesday

Contribution ID: **370**

Type: **not specified**

The Landscape of Cosmic Possibilities

Friday 23 February 2024 08:30 (1 hour)

Summary

Presenter: DROR, Jeff

Session Classification: Friday

Contribution ID: 371

Type: **not specified**

How to measure gravity by holding atoms

Friday 23 February 2024 18:50 (1 hour)

Presenter: PANDA, Cris

Session Classification: Friday

Contribution ID: 372

Type: **not specified**

New Models of Baryogenesis and How to Find Them

Thursday 22 February 2024 18:30 (1 hour)

Presenter: IPEK, Seyda

Session Classification: Thursday

Contribution ID: 373

Type: **not specified**

Properties of the Higgs boson measured by ATLAS collaboration

Monday 19 February 2024 09:35 (15 minutes)

Presenter: TSAI, Meng-Ju (University of Michigan)

Session Classification: Monday

Contribution ID: 374

Type: **not specified**

Probing the nature of electroweak symmetry breaking with Higgs boson pairs in ATLAS

Monday 19 February 2024 09:50 (15 minutes)

Presenter: SWIATLOWSKI, Maximilian J (TRIUMF (CA))

Session Classification: Monday

Contribution ID: 375

Type: **not specified**

Recent highlights of top-quark cross section and properties measurements with the ATLAS detector at the LHC

Tuesday 20 February 2024 10:45 (15 minutes)

Summary

Presenter: RICHTER, Stefan (Stockholm University (SE))

Session Classification: Tuesday

Contribution ID: 376

Type: **not specified**

AN AIS-112: First direct test of DAMA/LIBRA beyond three sigma

Monday 19 February 2024 18:00 (15 minutes)

Summary

Presenter: MARTINEZ, Maria

Session Classification: Monday

Contribution ID: 377

Type: **not specified**

Lux-Zeppelin

Monday 19 February 2024 18:30 (15 minutes)

Presenter: ERIKSEN, Sam (University of Bristol (GB))

Session Classification: Monday

Contribution ID: **378**

Type: **not specified**

Lux-Zeppelin

Monday 19 February 2024 18:15 (15 minutes)

Presenter: Dr MCLAUGHLIN, Joe

Session Classification: Monday

Contribution ID: **379**

Type: **not specified**

NEWS-G

Monday 19 February 2024 19:00 (15 minutes)

Summary

Presenter: GROS, Philippe

Session Classification: Monday

Contribution ID: **380**

Type: **not specified**

XENON / DARWIN

Monday 19 February 2024 19:15 (15 minutes)

Presenter: YUAN, Lanqing

Session Classification: Monday

Contribution ID: **381**

Type: **not specified**

PANDAX-4T

Presenter: ZHOU, Xiaopeng

Session Classification: Monday

Contribution ID: **382**

Type: **not specified**

PICO

Monday 19 February 2024 19:30 (15 minutes)

Presenter: SAVOIE, Jeremy

Session Classification: Monday

Contribution ID: **383**

Type: **not specified**

DEAP-3600 Dark Matter Experiment

Monday 19 February 2024 19:45 (15 minutes)

Summary

Presenter: JIGMEDDORJ, Badamsambuu

Session Classification: Monday

Contribution ID: **384**

Type: **not specified**

DarkSide

Tuesday 20 February 2024 08:30 (15 minutes)

Presenter: MARICIC, Jelena (University of Hawaii)

Session Classification: Tuesday

Contribution ID: **385**

Type: **not specified**

Silicon Photomultiplier (SiPM) Development for ARGO

Tuesday 20 February 2024 08:45 (15 minutes)

Summary

Presenter: KOULOSOUSAS, Seraphim

Session Classification: Tuesday

Contribution ID: **386**

Type: **not specified**

ADMX

Tuesday 20 February 2024 09:00 (15 minutes)

Presenter: BRAINE, Tom

Session Classification: Tuesday

Contribution ID: **387**

Type: **not specified**

DELight

Tuesday 20 February 2024 09:15 (15 minutes)

Presenter: ENSS, Christian

Session Classification: Tuesday

Contribution ID: **388**

Type: **not specified**

Recent results on associated top quark production and searches for new top-quark phenomena with the ATLAS detector

Tuesday 20 February 2024 11:00 (15 minutes)

Presenter: YACOOB, Sahal (University of Cape Town (ZA))

Session Classification: Tuesday

Contribution ID: **389**

Type: **not specified**

Probing EFT couplings in the top quark sector

Tuesday 20 February 2024 11:15 (15 minutes)

Presenter: MOHRMAN, Kelci Ann (University of Florida (US))

Session Classification: Tuesday

Contribution ID: **390**

Type: **not specified**

Recent highlights of top-quark property measurements from CMS

Tuesday 20 February 2024 11:30 (15 minutes)

Summary

Presenter: WILDRIDGE, Andrew (Purdue University (US))

Session Classification: Tuesday

Contribution ID: **391**

Type: **not specified**

Measurements of QCD with the ATLAS Detector

Tuesday 20 February 2024 11:45 (15 minutes)

Presenter: BUTTERWORTH, Jonathan (UCL)

Session Classification: Tuesday

Contribution ID: 392

Type: **not specified**

Precision measurements in W and Z decays with the ATLAS Experiment

Friday 23 February 2024 11:40 (15 minutes)

Presenter: Dr SFORZA, Federico (University and INFN Genoa)

Session Classification: Friday

Contribution ID: 393

Type: **not specified**

Vector bosons production and properties at CMS

Monday 19 February 2024 10:45 (15 minutes)

Presenter: AZZI, Patrizia (INFN Padova (IT))

Session Classification: Monday

Contribution ID: 394

Type: **not specified**

Search for emerging jets with graph neural networks using CMS Run 2 data

Monday 19 February 2024 11:00 (15 minutes)

Presenter: SAVARD, Claire (University of Colorado Boulder (US))

Session Classification: Monday

Contribution ID: 395

Type: **not specified**

Precision Timing with the CMS MIP Timing Detector for High-Luminosity LHC

Monday 19 February 2024 11:15 (15 minutes)

Summary

Presenter: SPITZBART, Daniel (Boston University (US))

Session Classification: Monday

Contribution ID: 396

Type: **not specified**

Searches for Dark Matter with the ATLAS Experiment at the LHC

Friday 23 February 2024 09:45 (15 minutes)

Summary

Presenter: BAUCE, Matteo (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Friday

Contribution ID: **397**

Type: **not specified**

Searching for additional Higgs bosons at ATLAS

Presenter: CAI, Huacheng (University of Pittsburgh (US))

Session Classification: Friday

Contribution ID: 398

Type: **not specified**

Testing the electroweak theory in multiboson measurements in ATLAS

Monday 19 February 2024 10:05 (15 minutes)

Presenter: KHORIAULI, Gia (Julius Max. Universitaet Wuerzburg (DE))

Session Classification: Monday

Contribution ID: **399**

Type: **not specified**

ALICE

Friday 23 February 2024 17:00 (20 minutes)

Presenter: GARCIA-SOLIS, Edmundo (Chicago State University (US))

Session Classification: Friday

Contribution ID: **400**

Type: **not specified**

Light exotics at BESIII

Friday 23 February 2024 17:50 (15 minutes)

Presenter: HAN, Tingting

Session Classification: Friday

Contribution ID: **401**

Type: **not specified**

Hyperon physics at BESIII

Friday 23 February 2024 18:05 (15 minutes)

Presenter: SHEN, Hongfei

Session Classification: Friday

Contribution ID: **402**

Type: **not specified**

NA62

Friday 23 February 2024 17:35 (15 minutes)

Presenter: WONG, Vincent Wai Sum (TRIUMF (CA))

Session Classification: Friday

Contribution ID: **403**

Type: **not specified**

MEG-II

Friday 23 February 2024 17:20 (15 minutes)

Presenter: OYA, Atsushi

Session Classification: Friday

Contribution ID: **404**

Type: **not specified**

Searches for BSM physics in low-mass, non-resonant, or long-lived signatures with the ATLAS detector

Friday 23 February 2024 10:40 (15 minutes)

Summary

Presenters: TSAI, Meng-Ju (University of Michigan); DAI, Tiesheng (University of Michigan (US))

Session Classification: Friday

Contribution ID: **405**

Type: **not specified**

Searches for Exotic Heavy Resonances with the ATLAS detector

Friday 23 February 2024 10:55 (15 minutes)

Presenter: MARJANOVIC, Marija (University of Oklahoma (US))

Session Classification: Friday

Contribution ID: **406**

Type: **not specified**

Searches for resonances decaying to pairs of heavy bosons in ATLAS

Friday 23 February 2024 11:10 (15 minutes)

Presenter: CONVENTI, Francesco

Session Classification: Friday

Contribution ID: **408**

Type: **not specified**

Enhancing CMS low-mass searches with data scouting: from Run 2 to Run 3

Friday 23 February 2024 11:25 (15 minutes)

Presenter: FONTANESI, Elisa (Boston University (US))

Session Classification: Friday

Contribution ID: **409**

Type: **not specified**

Searches for Supersymmetry with CMS

Friday 23 February 2024 10:00 (15 minutes)

Presenter: DUTTA, Valentina (Carnegie-Mellon University (US))

Session Classification: Friday

Contribution ID: **410**

Type: **not specified**

FASER BSM

Friday 23 February 2024 09:30 (15 minutes)

Presenter: WELCH, Eli

Session Classification: Friday

Contribution ID: **411**

Type: **not specified**

DarkLight

Friday 23 February 2024 18:35 (15 minutes)

Summary

Presenter: MILLER, Laura (TRIUMF (CA))

Session Classification: Friday

Contribution ID: **412**

Type: **not specified**

Pierre Auger

Thursday 22 February 2024 17:45 (15 minutes)

Presenter: NITZ, David (Michigan Technological University)

Session Classification: Thursday

Contribution ID: **413**

Type: **not specified**

HAWC

Thursday 22 February 2024 18:00 (15 minutes)

Presenter: GOODMAN, Jordan A.

Session Classification: Thursday

Contribution ID: 414

Type: **not specified**

Search for B-mesogenesis at BABAR

Wednesday 21 February 2024 09:30 (15 minutes)

Presenter: ECHENARD, Bertrand (California Institute of Technology (US))

Session Classification: Wednesday

Contribution ID: 415

Type: **not specified**

Semileptonic decays at Belle and Belle II (incl. LUV measurements)

Wednesday 21 February 2024 09:45 (15 minutes)

Presenter: VAN TONDER, Raynette (McGill University)

Session Classification: Wednesday

Contribution ID: **416**

Type: **not specified**

Electroweak and radiative penguin B meson decays at Belle and Belle II

Wednesday 21 February 2024 10:00 (15 minutes)

Presenter: DE MARINO, Gaetano (Jožef Stefan Institute)

Session Classification: Wednesday

Contribution ID: **417**

Type: **not specified**

Charm and beauty hadron decays at Belle and Belle II

Wednesday 21 February 2024 10:15 (15 minutes)

Presenter: SKORUPA, Justin

Session Classification: Wednesday

Contribution ID: **418**

Type: **not specified**

Measurement of $|\text{Vcb}|$ at BaBar

Wednesday 21 February 2024 10:45 (15 minutes)

Presenter: WILSON, Fergus (Science and Technology Facilities Council STFC (GB))

Session Classification: Wednesday

Contribution ID: **419**

Type: **not specified**

Tau and low multiplicity decays at Belle and Belle II

Wednesday 21 February 2024 11:00 (15 minutes)

Summary

Presenter: WALLNER, Stefan (Max Planck Institute for Physics)

Session Classification: Wednesday

Contribution ID: 420

Type: **not specified**

Measurement of beam polarization at an e+e-B-Factory with a new tau polarimetry technique

Wednesday 21 February 2024 11:15 (15 minutes)

Presenter: MILLER, Caleb

Session Classification: Wednesday

Contribution ID: **421**

Type: **not specified**

CP Violation in Beauty to Open Charm at LHCb

Wednesday 21 February 2024 11:30 (15 minutes)

Summary

Presenter: DAVIES, Jonathan (University of Manchester (GB))

Session Classification: Wednesday

Contribution ID: 422

Type: **not specified**

Exotic multiquark states at LHCb

Wednesday 21 February 2024 11:45 (15 minutes)

Summary

Presenter: CAPRIOTTI, Lorenzo (Universita e INFN, Ferrara (IT))

Session Classification: Wednesday

Contribution ID: 423

Type: **not specified**

Hyper-Kamiokande Project Updates: Its Physics Program and Current R&D progress

Thursday 22 February 2024 11:00 (15 minutes)

Presenter: KOERICH, Luan

Session Classification: Thursday

Contribution ID: **424**

Type: **not specified**

BeEST

Thursday 22 February 2024 11:45 (15 minutes)

Presenter: LENNARZ, Annika (TRIUMF)

Session Classification: Thursday

Contribution ID: **425**

Type: **not specified**

T2K

Thursday 22 February 2024 10:15 (15 minutes)

Presenter: NUGENT, John

Session Classification: Thursday

Contribution ID: **426**

Type: **not specified**

DUNE

Thursday 22 February 2024 11:30 (15 minutes)

Presenter: MARICIC, Jelena (University of Hawaii)

Session Classification: Thursday

Contribution ID: **427**

Type: **not specified**

MicroBoone

Thursday 22 February 2024 11:15 (15 minutes)

Presenter: WU, Wanwei

Session Classification: Thursday

Contribution ID: **428**

Type: **not specified**

IceCube low-energy + upgrade

Thursday 22 February 2024 10:45 (15 minutes)

Presenter: BLOT, Summer (DESY Zeuthen)

Session Classification: Thursday

Contribution ID: **429**

Type: **not specified**

NOvA

Thursday 22 February 2024 10:30 (15 minutes)

Summary

Presenter: WU, Wenjie (University of California, Irvine)

Session Classification: Thursday

Contribution ID: **430**

Type: **not specified**

Status of AMoRE Experiment

Thursday 22 February 2024 09:00 (15 minutes)

Summary

Presenter: KIM, Gowoon

Session Classification: Thursday

Contribution ID: **431**

Type: **not specified**

CUPID

Thursday 22 February 2024 08:45 (15 minutes)

Presenter: TORRES, Jorge (Yale University)

Session Classification: Thursday

Contribution ID: **432**

Type: **not specified**

LEGEND

Wednesday 21 February 2024 18:55 (15 minutes)

Presenter: BOS, Brady (University of North Carolina - Chapel Hill)

Session Classification: Wednesday

Contribution ID: 433

Type: **not specified**

Kamland-Zen

Wednesday 21 February 2024 18:40 (15 minutes)

Presenter: MIYAKE, Haruhiko

Session Classification: Wednesday

Contribution ID: **434**

Type: **not specified**

CUORE

Thursday 22 February 2024 08:30 (15 minutes)

Presenter: KOWALSKI, Rebecca

Session Classification: Thursday

Contribution ID: 435

Type: **not specified**

Katrin

Wednesday 21 February 2024 18:25 (15 minutes)

Presenter: BLOCK, Fabian

Session Classification: Wednesday

Contribution ID: 436

Type: **not specified**

FaserNu

Thursday 22 February 2024 09:15 (15 minutes)

Presenter: OHASHI, Ken

Session Classification: Thursday

Contribution ID: **437**

Type: **not specified**

SND @ LHC

Thursday 22 February 2024 09:30 (15 minutes)

Presenter: CONABOY, Andrew Picot (Humboldt University of Berlin (DE))

Session Classification: Thursday

Contribution ID: **438**

Type: **not specified**

MINERvA

Thursday 22 February 2024 09:45 (15 minutes)

Presenter: MEHMOOD, Maria

Session Classification: Thursday

Contribution ID: **439**

Type: **not specified**

KM3NeT

Thursday 22 February 2024 17:00 (15 minutes)

Presenter: LAMOUREUX, Mathieu (CP3, UCLouvain)

Session Classification: Thursday

Contribution ID: **440**

Type: **not specified**

IceCube astro+Gen2

Thursday 22 February 2024 17:15 (15 minutes)

Presenter: HAACK, Christian

Session Classification: Thursday

Contribution ID: **441**

Type: **not specified**

P-ONE

Thursday 22 February 2024 17:30 (15 minutes)

Summary

Presenter: DANNINGER, Matthias (Simon Fraser University (CA))

Session Classification: Thursday

Contribution ID: 442

Type: **not specified**

Higgs boson production and decay rate measurements and their interpretation with the ATLAS experiment

Monday 19 February 2024 11:30 (15 minutes)

Summary

Presenter: WANG, Weitao (University of Iowa (US))

Session Classification: Monday

Contribution ID: 443

Type: **not specified**

Searching for additional Higgs bosons at ATLAS

Monday 19 February 2024 11:45 (15 minutes)

Presenter: BARAK, Liron (Tel Aviv University)

Session Classification: Monday

Contribution ID: 444

Type: **not specified**

Welcome

Monday 19 February 2024 08:30 (5 minutes)

Presenters: PENIN, Alexander; YANEZ GARZA, Juan Pablo

Session Classification: Monday

Contribution ID: 445

Type: **not specified**

Closing remarks

Friday 23 February 2024 19:50 (5 minutes)

Presenter: PENIN, Alexander

Session Classification: Friday