## Lake Louise Winter Institute 2015

### **Report of Contributions**

Contribution ID: 1 Type: Invited Talk

#### **Precision Higgs physics**

Monday 16 February 2015 09:40 (1 hour)

**Presenter:** FURLAN, Elisabetta

Session Classification: Monday

May 14, 2025

Contribution ID: 2 Type: not specified

#### Higgs results from ATLAS and CMS

Monday 16 February 2015 08:40 (1 hour)

**Presenter:** KORYTOV, Andrey

Session Classification: Monday

May 14, 2025

Lake Louise Wi · · · / Report of Contributions

Welcome

Contribution ID: 3 Type: not specified

#### Welcome

Monday 16 February 2015 08:30 (10 minutes)

**Presenter:** PENIN, Alexander

Session Classification: Monday

Contribution ID: 4 Type: **not specified** 

### Searches for Higgs bosons beyond the Standard Model using the ATLAS Experiment

Monday 16 February 2015 11:00 (15 minutes)

Presenter: FERRARI, Arnaud

Session Classification: Monday

Contribution ID: 5 Type: **not specified** 

### Search for exotic decays of the Higgs boson with the ATLAS detector

Monday 16 February 2015 11:30 (15 minutes)

Presenter: VANGURI, Rami

Session Classification: Monday

Contribution ID: 6 Type: not specified

#### **BSM Higgs results from CMS**

Monday 16 February 2015 11:15 (15 minutes)

**Presenter:** SCHRÖDER, Matthias

Session Classification: Monday

May 14, 2025

Contribution ID: 7 Type: **not specified** 

#### Rare Higgs decays results from CMS

Monday 16 February 2015 11:45 (15 minutes)

Presenter: MASTROLORENZO, Luca

Session Classification: Monday

May 14, 2025

Contribution ID: 8 Type: not specified

#### **Recent top-physics results from ATLAS**

Monday 16 February 2015 19:45 (15 minutes)

**Presenter:** WILDAUER, Andreas

Session Classification: Monday

Contribution ID: 9 Type: not specified

#### Recent top quark physics results from CMS

Monday 16 February 2015 20:00 (15 minutes)

Presenter: COLE, Joanne

Session Classification: Monday

May 14, 2025

Contribution ID: 10 Type: not specified

#### Electroweak measurements with the ATLAS detector

Monday 16 February 2015 20:15 (15 minutes)

**Presenter:** SOMMER, Philip

Session Classification: Monday

Contribution ID: 11 Type: not specified

#### Recent multiboson production results from CMS

Monday 16 February 2015 20:30 (15 minutes)

**Presenter:** VILIANI, Lorenzo

Session Classification: Monday

Contribution ID: 12 Type: not specified

### Measurements of vector boson with associated jet production with the ATLAS detector

Monday 16 February 2015 21:15 (15 minutes)

**Presenter:** SPAGNOLO, Stefania

Session Classification: Monday

Contribution ID: 13 Type: not specified

#### **Results from ALICE**

Monday 16 February 2015 19:30 (15 minutes)

Presenter: BELMONT, Ron

Session Classification: Monday

Contribution ID: 14 Type: not specified

#### Recent soft QCD and jet physics results from ATLAS

Monday 16 February 2015 21:30 (15 minutes)

**Presenter:** MARTIN, Tim

Session Classification: Monday

Contribution ID: 15 Type: not specified

#### Physics prospects with the upgraded ATLAS detector

Monday 16 February 2015 21:45 (15 minutes)

Presenter: VOLPI, Guido

Session Classification: Monday

QCD theory of hadrons

Contribution ID: 16 Type: not specified

#### QCD theory of hadrons

Tuesday 17 February 2015 08:30 (1 hour)

**Presenter:** LEPAGE, Peter

Session Classification: Tuesday

Contribution ID: 17 Type: not specified

#### **Alternatives to the Standard Model Higgs**

Tuesday 17 February 2015 09:30 (1 hour)

Presenter: LEWIS, Ian

Session Classification: Tuesday

Contribution ID: 18 Type: not specified

### Searches for dark matter and signs of Composite Higgs with the ATLAS detector

Tuesday 17 February 2015 10:45 (15 minutes)

Presenter: BLACKBURN, Daniel

Session Classification: Tuesday

Contribution ID: 19 Type: not specified

#### Search for ttbar resonances and dark matter at CMS

Tuesday 17 February 2015 11:00 (15 minutes)

**Presenter:** BERRY, Douglas Ryan

Session Classification: Tuesday

Contribution ID: 20 Type: not specified

### Searches for dark matter in monojet, monophoton, and monolepton final states in CMS

Tuesday 17 February 2015 11:15 (15 minutes)

Presenter: DE BRUYN, Isabelle Helena

Session Classification: Tuesday

Contribution ID: 21 Type: not specified

### Search for heavy resonances with the ATLAS detector

Tuesday 17 February 2015 11:30 (15 minutes)

**Presenter:** DALLAIRE, Frederik

Session Classification: Tuesday

Contribution ID: 22 Type: not specified

### Search for (pseudo-)scalar boson(s) in the tautau final state at CMS

Tuesday 17 February 2015 11:45 (15 minutes)

Presenter: PERRINI, Lucia

Session Classification: Tuesday

Contribution ID: 23 Type: not specified

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

Tuesday 17 February 2015 19:30 (15 minutes)

Presenter: CASTILLO, Itzebelt Santoyo

Session Classification: Tuesday

Contribution ID: 24 Type: not specified

### Search for stealth supersymmetry with photons or leptons, jets, and low MET

Tuesday 17 February 2015 19:45 (15 minutes)

**Presenter:** CARLSON, Benjamin Taylor

Session Classification: Tuesday

Contribution ID: 25 Type: not specified

### Searches for squarks and gluinos with the ATLAS detector

Tuesday 17 February 2015 20:00 (15 minutes)

**Presenter:** KALDERON, Charles William

Session Classification: Tuesday

Contribution ID: 26 Type: not specified

#### Search for fermionic partners at CMS

Tuesday 17 February 2015 20:15 (15 minutes)

**Presenter:** DIETZ, Charles Hermann

Session Classification: Tuesday

Contribution ID: 27 Type: not specified

#### 3rd generation SUSY searches at CMS

Tuesday 17 February 2015 20:45 (15 minutes)

Presenter: HARE, Daryl

Session Classification: Tuesday

Contribution ID: 28 Type: not specified

#### Search for Long-lived particles at CMS

Tuesday 17 February 2015 21:00 (15 minutes)

Presenter: QUERTENMONT, Loic

Session Classification: Tuesday

Contribution ID: 29 Type: not specified

#### Search for long-lived particles at BABAR

Tuesday 17 February 2015 21:15 (15 minutes)

Presenter: SOFFER, Abi

Session Classification: Tuesday

Contribution ID: 30 Type: not specified

#### Searches for "new physics" low-mass states at BABAR

Tuesday 17 February 2015 21:30 (15 minutes)

Presenter: BEAULIEU, Alexandre

Session Classification: Tuesday

Physics of axions

Contribution ID: 31 Type: not specified

#### Physics of axions

Wednesday 18 February 2015 08:30 (1 hour)

**Presenter:** DUBOVSKY, Sergey

Session Classification: Wednesday

Contribution ID: 32 Type: not specified

#### Dark matter review

Wednesday 18 February 2015 09:30 (1 hour)

Presenter: TAIT, Tim

Session Classification: Wednesday

Contribution ID: 33 Type: not specified

#### **News from ADMX**

Wednesday 18 February 2015 10:45 (15 minutes)

**Presenter:** LYAPUSTIN, Dmitry

Session Classification: Wednesday

Contribution ID: 34 Type: not specified

#### **News from DEAP-3600**

Wednesday 18 February 2015 11:15 (15 minutes)

**Presenter:** BUENO, James

Session Classification: Wednesday

Contribution ID: 35 Type: not specified

#### World-leading Dark Matter Limits with PICO-2L

Wednesday 18 February 2015 11:30 (15 minutes)

Presenter: HARRIS, Orin

Session Classification: Wednesday

Contribution ID: 36 Type: not specified

### The PICO Dark Matter Program

Wednesday 18 February 2015 11:45 (15 minutes)

Presenter: ROBINSON, Alan

Session Classification: Wednesday

Contribution ID: 37 Type: not specified

# Supernova remnant high energy particle acceleration

Wednesday 18 February 2015 20:15 (15 minutes)

**Presenter:** LEAHY, Denis

Session Classification: Wednesday

IceCube results

Contribution ID: 38 Type: not specified

#### IceCube results

Friday 20 February 2015 11:30 (15 minutes)

**Presenter:** WEAVER, Chris

Session Classification: Friday

Contribution ID: 39 Type: not specified

# IceCube facility upgrades

Friday 20 February 2015 11:45 (15 minutes)

Presenter: KOPPER, Claudio

Session Classification: Friday

May 14, 2025

Contribution ID: 40 Type: not specified

# Electroweak physics in the forward direction at the LHC

Monday 16 February 2015 21:00 (15 minutes)

Presenter: SIRENDI, Marek

Session Classification: Monday

50 years of CP violation

Contribution ID: 41 Type: not specified

# 50 years of CP violation

Thursday 19 February 2015 08:30 (1 hour)

**Presenter:** RONEY, Mike

Session Classification: Thursday

Lake Louise Wi  $\,\cdots\,\,$  / Report of Contributions

Flavor physics

Contribution ID: 42 Type: not specified

# Flavor physics

Thursday 19 February 2015 09:30 (1 hour)

Presenter: WILLIAMS, Michael

Session Classification: Thursday

Contribution ID: 43 Type: not specified

# **Recent B-physics results from ATLAS**

Thursday 19 February 2015 10:45 (15 minutes)

Presenter: BONA, Marcella

Session Classification: Thursday

Contribution ID: 44 Type: **not specified** 

# Recent flavour physics results at CMS

Thursday 19 February 2015 11:00 (15 minutes)

**Presenter:** CRISTELLA, Leonardo

Session Classification: Thursday

Contribution ID: 45 Type: not specified

### Rare B and charm decays at LHCb

Thursday 19 February 2015 16:30 (15 minutes)

**Presenter:** MARTINO, Borsato

Session Classification: Thursday

Contribution ID: 46 Type: not specified

### Heavy quark spectroscopy at LHCb

Thursday 19 February 2015 17:15 (15 minutes)

**Presenter:** CHARLOTTE, Wallace

Session Classification: Thursday

Contribution ID: 47 Type: **not specified** 

# B production asymmetries in pp collisions

**Presenter:** FERRARI, Fabio

Contribution ID: 48 Type: **not specified** 

# Measurements of CP violating phases in B decays at LHCb

Thursday 19 February 2015 11:30 (15 minutes)

**Presenter:** DE BRUYN, Kristof

Session Classification: Thursday

Contribution ID: 49 Type: not specified

# Measurements of CP violation and mixing in charm decays at LHCb

Thursday 19 February 2015 11:45 (15 minutes)

**Presenter:** SMITH, Mark

Session Classification: Thursday

Contribution ID: 50 Type: not specified

# Measurement of time-dependent CP violation at Belle

Thursday 19 February 2015 15:30 (15 minutes)

**Presenter:** SANTELJ, Luka

Session Classification: Thursday

Belle II

Contribution ID: 51 Type: not specified

#### Belle II

Thursday 19 February 2015 17:45 (15 minutes)

**Presenter:** LIVENTSEV, Dmitri

Session Classification: Thursday

Contribution ID: **52** Type: **not specified** 

# Study of CP asymmetry in B0-B0bar mixing using inclusive dilepton samples in BABAR

Thursday 19 February 2015 15:45 (15 minutes)

Presenter: MIYASHITA, Tomo

Session Classification: Thursday

Contribution ID: 53 Type: not specified

#### Vcb measurement with B -> Dlnu at Belle

Thursday 19 February 2015 16:00 (15 minutes)

Presenter: GLATTAUER, Robin

Session Classification: Thursday

Contribution ID: 54 Type: not specified

# phi3 measurement by B0->D0[kspipi]K\*0 at Belle

Thursday 19 February 2015 16:15 (15 minutes)

Presenter: NEGISHI, Kentaro

Session Classification: Thursday

Contribution ID: 55 Type: not specified

# Measurement of Mass & width of Sigma\_c at Belle

Thursday 19 February 2015 17:30 (15 minutes)

**Presenter:** LEE, Soohyung

Session Classification: Thursday

Inflation

Contribution ID: 56 Type: not specified

#### Inflation

Friday 20 February 2015 08:30 (1 hour)

**Presenter:** KOSOWSKY, Arthur

Session Classification: Friday

Contribution ID: 57 Type: not specified

### **Results from PLANCK**

Friday 20 February 2015 09:30 (30 minutes)

**Presenter:** FROLOV, Andrei

Session Classification: Friday

Lake Louise Wi  $\,\cdots\,$  / Report of Contributions

Results from BICEP

Contribution ID: 58 Type: not specified

#### **Results from BICEP**

Presenter: TBA

Lake Louise Wi  $\,\cdots\,\,$  / Report of Contributions

Neutrinos

Contribution ID: 59 Type: not specified

### **Neutrinos**

Friday 20 February 2015 10:30 (1 hour)

Presenter: WARK, David

Session Classification: Friday

Contribution ID: 60 Type: not specified

# Results from CUORE-0, status of CUORE and R&D with bolometers.

Saturday 21 February 2015 10:50 (15 minutes)

**Presenter:** YEOMAN, Raul Hennings

Session Classification: Saturday

Contribution ID: 61 Type: not specified

#### EXO-200/nEXO status

Friday 20 February 2015 19:30 (15 minutes)

**Presenter:** SCHUBERT, Alexis

Session Classification: Friday

Contribution ID: **62** Type: **not specified** 

# Search for the neutrinoless double beta decay of 76Ge with the GERDA experiment

Friday 20 February 2015 19:45 (15 minutes)

Presenter: KIRSCH, Andrea

Session Classification: Friday

Contribution ID: 63 Type: not specified

# Towards a Ton-Scale Ge-76 Neutrinoless Double-Beta Decay Experiment: Recent Progress on the MAJORANA DEMONSTRATOR

Friday 20 February 2015 20:00 (15 minutes)

Presenter: BUUCK, Micah

Session Classification: Friday

Status of SNO+

Contribution ID: 64 Type: not specified

#### Status of SNO+

Wednesday 18 February 2015 20:30 (15 minutes)

**Presenter:** STRAIT, Matt

Session Classification: Wednesday

Contribution ID: 65 Type: not specified

### Recent results Daya Bay

Friday 20 February 2015 20:15 (15 minutes)

Presenter: NAKAJIMA, Yasuhiro

Session Classification: Friday

Contribution ID: 66 Type: not specified

#### **Recent results Double Chooz**

Friday 20 February 2015 20:45 (15 minutes)

Presenter: KANEDA, Michiru

Session Classification: Friday

RENO results

Contribution ID: 67 Type: not specified

#### **RENO** results

Friday 20 February 2015 21:00 (15 minutes)

**Presenter:** CHOI, Wonqook

Session Classification: Friday

KATRIN status

Contribution ID: 68 Type: not specified

#### **KATRIN** status

Saturday 21 February 2015 10:20 (15 minutes)

Presenter: BODINE, Laura

Session Classification: Saturday

Contribution ID: 69 Type: not specified

### Recent Results from the MINERvA Experiment

Saturday 21 February 2015 09:15 (20 minutes)

**Presenter:** MAHER, Emily

Session Classification: Saturday

Contribution ID: 70 Type: not specified

# The short baseline program at Fermilab

Friday 20 February 2015 21:15 (20 minutes)

**Presenter:** STRAUSS, Thomas

Session Classification: Friday

Contribution ID: 71 Type: not specified

#### MINOS and first MINOS+ data

Friday 20 February 2015 21:35 (20 minutes)

Presenter: TONER, Ruth

Session Classification: Friday

Contribution ID: 72 Type: not specified

# Measurement of neutrino CP phase and mixing angles with nue appearance and numu disappearance in the T2K experiment

Saturday 21 February 2015 09:00 (15 minutes)

Presenter: KIKAWA, Tatsuya

Session Classification: Saturday

Contribution ID: 73 Type: not specified

# Charged current muon neutrino and muon antineutrino interactions in the T2K off-axis near detector, ND280

Saturday 21 February 2015 08:45 (15 minutes)

Presenter: SHORT, Sam

Session Classification: Saturday

Contribution ID: 74 Type: **not specified** 

#### Neutrino Cross Section and Interaction Rate Measurements involving Charged Current nue and Neutral Current pi0 with the T2K Near Detector

Saturday 21 February 2015 08:30 (15 minutes)

Presenter: JO, Jay

Session Classification: Saturday

Contribution ID: 75 Type: **not specified** 

### Status of the NA62 experiment

Thursday 19 February 2015 11:15 (15 minutes)

**Presenter:** GONNELLA, Francesco

Session Classification: Thursday

Contribution ID: 76 Type: not specified

## Mu2e: Probing the Fontiers of Physics Using Rare Particle Decays

Thursday 19 February 2015 18:00 (15 minutes)

Mu2e: Probing the Fontiers of Ph · · ·

Presenter: DUKES, Craig

Session Classification: Thursday

Contribution ID: 77 Type: **not specified** 

### Study of baryonic decays of B mesons

Thursday 19 February 2015 17:00 (15 minutes)

Presenter: HESS, Miriam

Session Classification: Thursday

Contribution ID: 78 Type: not specified

#### Results from the OPERA experiment

Saturday 21 February 2015 10:05 (15 minutes)

Presenter: ARIGA, Akitaka

Session Classification: Saturday

Status of NOvA

Contribution ID: 79 Type: not specified

### Status of NOvA

Saturday 21 February 2015 09:35 (15 minutes)

**Presenter:** DAVIES, Gavin

Session Classification: Saturday

Project8 status

Contribution ID: 80 Type: not specified

### **Project8 status**

Saturday 21 February 2015 10:35 (15 minutes)

**Presenter:** KOFRON, Jared

Session Classification: Saturday

Contribution ID: 81 Type: not specified

### SuperCDMS: recent results and status of project -with EURECA- at SNOLAB

Wednesday 18 February 2015 19:30 (30 minutes)

**Presenter:** GERBIER, Gilles

Session Classification: Wednesday

Contribution ID: 82 Type: not specified

#### **SABRE** status

Wednesday 18 February 2015 11:00 (15 minutes)

**Presenter:** FROBORG, Francis

Session Classification: Wednesday

Contribution ID: 84

Type: not specified

## Search for direct production of charginos and neutralinos decaying via the 125 GeV Higgs boson in $\sqrt{s}$ = 8 TeV pp collisions with the ATLAS detector

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** GIGNAC, Matthew

Session Classification: Poster Session

Contribution ID: **85** Type: **not specified** 

### Non-prompt Lepton Jets search with the ATLAS detector at $\sqrt{s}$ = 8 TeV LHC proton-proton collider

**Presenter:** DEL GAUDIO, Michela

Contribution ID: 86 Type: not specified

### 8TeV Non-Resonant dilepton search

Wednesday 18 February 2015 20:45 (1h 30m)

Presenter: SAVAGE, Graham

Session Classification: Poster Session

Contribution ID: 87

Type: not specified

# Flavour-tagged time-dependent angular analysis of the $B^0_s\to J/\psi(\mu^+\mu^-)\Phi(K^+K^-)$ decay with the ATLAS detector

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** JAKOUBEK, Tomas

Session Classification: Poster Session

Contribution ID: 88 Type: not specified

### Novel methods and expected run II performance of ATLAS track reconstruction in dense environments

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** JANSKY, Roland Wolfgang

Session Classification: Poster Session

Contribution ID: 89 Type: not specified

## Search for the associated production of the Higgs boson with top quarks in the multi-lepton final state

**Presenter:** DEMARCO, David

Contribution ID: 90 Type: not specified

## Monitoring tools for the CMS upgraded outer tracker detector

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** DE BRUYN, Isabelle Helena J

Session Classification: Poster Session

Contribution ID: 91 Type: not specified

### Measurement of Upsilon(nS) cross sections at 7 TeV

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** CARLSON, Benjamin Taylor **Session Classification:** Poster Session

Contribution ID: 92 Type: not specified

### Production asymmetries of neutral B mesons in pp collisions at LHCb

Wednesday 18 February 2015 20:45 (1h 30m)

Presenter: FERRARI, Fabio

Session Classification: Poster Session

Darkside status

Contribution ID: 93 Type: not specified

#### **Darkside status**

Wednesday 18 February 2015 20:00 (15 minutes)

Presenter: BRODSKY, Jason

Session Classification: Wednesday

Contribution ID: 94 Type: not specified

### Roadmap to controlling penguins

Wednesday 18 February 2015 20:45 (1h 30m)

**Presenter:** DE BRUYN, Kristof

Session Classification: Poster Session