

IMPRS Young Scientist Workshop at Ringberg Castle

Report of Contributions

Contribution ID: 0

Type: **not specified**

Phase-stability measurements of self-modulated proton bunches at AWAKE

Presenter: BATSCH, Fabian

Contribution ID: 1

Type: **not specified**

Observation of the Hosing Instability in AWAKE

Presenter: HUETER, Mathias

Contribution ID: 2

Type: **not specified**

Stringy Axion Inflation

Presenter: WOLF, Florian

Contribution ID: 3

Type: **not specified**

Quantum Gravity Constraints on Large Field Inflation

Presenter: KLÄWER, Daniel

Contribution ID: 4

Type: **not specified**

Searches for Dlboson Resonances with ATLAS

Presenter: HOENLE, Andreas

Contribution ID: 5

Type: **not specified**

Applications of Machine Learning for Particle Reconstruction

Wednesday, 5 September 2018 20:05 (20 minutes)

Presenter: JUNGGEBURTH, Johannes

Session Classification: ATLAS PHYSICS I

Contribution ID: 6

Type: **not specified**

The ATLAS Experiment at the LHC

Wednesday, 5 September 2018 19:45 (20 minutes)

Presenter: SELLE, Patrick

Session Classification: ATLAS PHYSICS I

Contribution ID: 7

Type: **not specified**

Fractional Bosonic Strings

Wednesday, 5 September 2018 15:15 (20 minutes)

Presenter: DIAZ, Victor

Session Classification: STRING THEORY I

Contribution ID: 8

Type: **not specified**

CRESST Data Analysis

Friday, 7 September 2018 15:30 (20 minutes)

Presenter: BAUER, Philipp

Session Classification: CRESST PHYSICS

Contribution ID: 9

Type: **not specified**

A Global Bayesian Analysis of Neutrino Mass Data

Presenter: Dr MERLE, Alexander

Contribution ID: **10**

Type: **not specified**

Future High Energy e^+e^- - Experiments

Presenter: GRAF, Christian

Contribution ID: **11**

Type: **not specified**

Search for top squarks with the ATLAS detector

Presenter: KÖHLER, Nicolas (Max-Planck-Institut fuer Physik (DE))

Contribution ID: 12

Type: **not specified**

Search for top squarks with the ATLAS detector - aided by machine learning

Presenter: GRAW, Jonas

Contribution ID: 13

Type: **not specified**

Fast flavor conversions of neutrinos

Saturday, 8 September 2018 10:00 (20 minutes)

Presenter: STIRNER, Tobias

Session Classification: PHENOMENOLOGY

Contribution ID: 14

Type: **not specified**

Higgs couplings in the light of non-linear Effective field theory with full NLO QCD corrections

Saturday, 8 September 2018 10:20 (20 minutes)

Presenter: CAPOZZI, Matteo

Session Classification: PHENOMENOLOGY

Contribution ID: 15

Type: **not specified**

Kaluza-Klein Reductions

Friday, 7 September 2018 16:30 (20 minutes)

Presenter: GREINER, Sebastian

Session Classification: STRING THEORY II

Contribution ID: 16

Type: **not specified**

A vacuum selection mechanism from the bulk tachyon

Friday, 7 September 2018 16:50 (20 minutes)

Presenter: SCHLECHTER, Lorenz

Session Classification: STRING THEORY II

Contribution ID: 17

Type: **not specified**

String phenomenology - quo vadis?

Presenter: WOLF, Florian

Contribution ID: **18**

Type: **not specified**

Neutron background measurement for rare-event underground experiments

Presenter: DU, Quiang

Contribution ID: **19**

Type: **not specified**

Characterization of the detector dead layer for a sterile neutrino search with KATRIN

Presenter: BRUNST, Tim

Contribution ID: 20

Type: **not specified**

Ensuring good scientific practice, what does this mean?

Presenter: Dr MAJOROVITS, Bela

Contribution ID: 22

Type: **not specified**

Pulsars at very high energy with MAGIC and the SumTrigger-II

Presenter: CERIBELLA, Giovanni

Contribution ID: 23

Type: **not specified**

Improvement of energy reconstruction by using machine learning algorithms in MAGIC

Presenter: ISHIO, Kazuma

Contribution ID: 24

Type: **not specified**

Latest GIF++ test beam for ATLAS muon spectrometer upgrades

Saturday, 8 September 2018 11:10 (20 minutes)

Presenter: BRUCE, Catriona

Session Classification: ATLAS PHYSICS III

Contribution ID: 25

Type: **not specified**

Development and Test of readout electronics for drift chambers

Presenter: SCHMIDT-SOMMERFELD, Korbinian

Contribution ID: 26

Type: **not specified**

Preparing track reconstruction for the High-Luminosity era

Saturday, 8 September 2018 11:30 (20 minutes)

Presenter: KLIMPEL, Fabian

Session Classification: ATLAS PHYSICS III

Contribution ID: 27

Type: **not specified**

Kick-starting a Particle Accelerator: Commissioning of SuperKEKB'

Wednesday, 5 September 2018 16:45 (20 minutes)

Presenter: WINDEL, Hendrik

Session Classification: BELLE II PHYSICS & DEPFETS

Contribution ID: 28

Type: **not specified**

Results of the main production module characterization of the Belle II pixel vertex detector

Presenter: LEITL, Philipp

Contribution ID: 29

Type: **not specified**

Characterization of Nonlinear DePFET Sensor for the EDET 80kHz TEM Camera System

Wednesday, 5 September 2018 17:05 (20 minutes)

Presenter: PREDIKAKA, Mitja

Session Classification: BELLE II PHYSICS & DEPFETS

Contribution ID: **30**

Type: **not specified**

Introduction to the KATRIN experiment

Saturday, 8 September 2018 09:00 (20 minutes)

Presenter: SCHLUETER, Lisa

Session Classification: NEUTRINO PHYSICS

Contribution ID: 31

Type: **not specified**

TRISTAN measurements at the Troitsk nu-mass experiment

Saturday, 8 September 2018 09:20 (20 minutes)

Presenter: BRUNST, Tim

Session Classification: NEUTRINO PHYSICS

Contribution ID: 32

Type: **not specified**

Development of Highly Integrated Signal Readout Electronics for the LEGEND Experiment

Presenter: EDZARDS, Frank

Contribution ID: 33

Type: **not specified**

Finding tau leptons originating from highly energetic particle decays

Presenter: RENDEL, Marian

Contribution ID: 34

Type: **not specified**

Understanding the performance of the ATLAS detector

Presenter: JUNGGEBURTH, Johannes

Contribution ID: 35

Type: **not specified**

Getting ready for the Max Planck and Open Day

Thursday, 6 September 2018 11:30 (30 minutes)

Presenter: WANKERL, Barbara

Session Classification: SPECIAL SEMINARS

Contribution ID: 36

Type: **not specified**

Becoming a Patent Attorney

Presenter: Dr HELD, Johannes

Contribution ID: 37

Type: **not specified**

From Cosmology to Investment Banking IT

Presenter: Dr KOSTKA, Philipp (European Bank for Financial Services GmbH (ebase®))

Contribution ID: **38**

Type: **not specified**

On Matter Couplings in Bimetric Gravity

Thursday, 6 September 2018 09:30 (20 minutes)

Presenter: LÜBEN, Marvin

Session Classification: GRAVITY II

Contribution ID: 39

Type: **not specified**

Gravitational Memory and Black Hole Formation

Thursday, 6 September 2018 09:50 (20 minutes)

Presenter: BART, Henk

Session Classification: GRAVITY II

Contribution ID: 40

Type: **not specified**

Introduction to AdS/CFT

Wednesday, 5 September 2018 17:25 (20 minutes)

Presenter: MIEKLEY, Nina

Session Classification: GRAVITY I

Contribution ID: 41

Type: **not specified**

Dark Matter searches at the Large Hadron Collider

Presenter: GADOW, Philipp

Contribution ID: 43

Type: **not specified**

Development of a cryogenic neutron monitor and Dark Matter search with a Lithium-based target

Friday, 7 September 2018 15:50 (20 minutes)

Presenter: BERTOLDO, Elia

Session Classification: CRESST PHYSICS

Contribution ID: 44

Type: **not specified**

Search for Supersymmetry in Multileptonic Final States with Collimated Tau Pairs with the ATLAS Detector

Wednesday, 5 September 2018 20:25 (20 minutes)

Presenter: RENDEL, Marian

Session Classification: ATLAS PHYSICS I

Contribution ID: 46

Type: **not specified**

Duality

Wednesday, 5 September 2018 15:35 (20 minutes)

Presenter: KLAEWER, Daniel

Session Classification: STRING THEORY I

Contribution ID: 47

Type: **not specified**

Non-Geometric Spacetimes

Wednesday, 5 September 2018 15:55 (20 minutes)

Presenter: OSTEN, David

Session Classification: STRING THEORY I

Contribution ID: 48

Type: **not specified**

Introduction to the ICECUBE Neutrino Observatory

Saturday, 8 September 2018 09:40 (10 minutes)

Presenter: KARL, Martina

Session Classification: NEUTRINO PHYSICS

Contribution ID: 49

Type: **not specified**

Critical States of Enhanced Memory Capacity in Attractive Bose Gases

Presenter: MICHEL, Marco

Contribution ID: 50

Type: **not specified**

Dark Matter and the Higgs Boson at ATLAS

Friday, 7 September 2018 10:00 (20 minutes)

Presenter: RÖHRIG, Rainer

Session Classification: ATLAS PHYSICS II

Contribution ID: 51

Type: **not specified**

Dark Matter and SUSY at ATLAS

Friday, 7 September 2018 10:20 (20 minutes)

Presenter: KÖHLER, Nicolas (Max-Planck-Institut für Physik (DE))

Session Classification: ATLAS PHYSICS II

Contribution ID: 52

Type: **not specified**

Searches for Dark Matter at the LHC

Friday, 7 September 2018 09:40 (20 minutes)

Presenter: TESHIMA, Makoto

Session Classification: ATLAS PHYSICS II

Contribution ID: 53

Type: **not specified**

How to ensure good scientific practise

Presenter: MAJOROVITS, Bela

Contribution ID: 54

Type: **not specified**

Introduction about MAGIC Telescope

Presenter: CHAI, Yating

Contribution ID: 55

Type: **not specified**

MAGIC and the Sum-Trigger-II - pulsar strikes back

Presenter: CERIBELLA, Giovanni

Contribution ID: 57

Type: **not specified**

Introduction to MAGIC Telescopes

Thursday, 6 September 2018 10:30 (20 minutes)

Presenter: CHAI, Yating

Session Classification: MAGIC PHYSICS

Contribution ID: 58

Type: **not specified**

MAGIC and the Sum-Trigger-II - pulsar strikes back

Thursday, 6 September 2018 10:50 (20 minutes)

Presenter: CERIBELLA, Giovanni

Session Classification: MAGIC PHYSICS

Contribution ID: 59

Type: **not specified**

KEYNOTE LECTURE I

Presenter: BIEBEL, Otmar

Contribution ID: **60**

Type: **not specified**

Symbolic Programming Examples - Mathematica vs. FORM

Thursday, 6 September 2018 09:00 (30 minutes)

Presenter: HAHN, Thomas

Session Classification: KEY LECTURE I

Contribution ID: **61**

Type: **not specified**

Scattering Amplitudes

Friday, 7 September 2018 14:00 (1 hour)

Presenter: HENN, Johannes

Session Classification: KEY LECTURE II

Contribution ID: **62**

Type: **not specified**

How to build a modern Calorimeter

Friday, 7 September 2018 11:10 (20 minutes)

Presenter: GRAF, Christian

Session Classification: DETECTOR PHYSICS

Contribution ID: 63

Type: **not specified**

Applications of a Highly Granular Electromagnetic Calorimeter in the DUNE Experiment

Friday, 7 September 2018 11:30 (20 minutes)

Presenter: EMBERGER, Lorenz

Session Classification: DETECTOR PHYSICS

Contribution ID: 64

Type: **not specified**

Investigation of PEN as a Scintillator for Low Background Experiments: Characterisation of Light Yield Properties

Friday, 7 September 2018 11:50 (20 minutes)

Presenter: KRÄTZSCHMER, Thomas

Session Classification: DETECTOR PHYSICS

Contribution ID: 65

Type: **not specified**

A new 3D Simulation for Germanium Detectors in Julia

Friday, 7 September 2018 12:10 (20 minutes)

Presenter: HAUERTMANN, Lukas

Session Classification: DETECTOR PHYSICS

Contribution ID: 66

Type: **not specified**

The patent system as a career path for physicists

Thursday, 6 September 2018 20:00 (45 minutes)

Presenter: Dr ARAUJO, Mario

Session Classification: CAREER OPPORTUNITIES I

Contribution ID: 67

Type: **not specified**

Working @ Infineon

Friday, 7 September 2018 09:00 (40 minutes)

Presenter: Dr GIOVANNINI, Paola ((IFAG DES DFE TML MDL) Staff Engineer)

Session Classification: CAREER OPPORTUNITIES II

Contribution ID: **68**

Type: **not specified**

Closing Remarks

Saturday, 8 September 2018 12:30 (5 minutes)

Contribution ID: **69**

Type: **not specified**

Neutrino Applications

Saturday, 8 September 2018 11:50 (40 minutes)

Presenter: ABT, Iris

Session Classification: KEY LECTURE III

Contribution ID: 70

Type: **not specified**

New observatories for X-ray astronomy

Presenter: BECKER, Werner (MPE Garching)

Contribution ID: 71

Type: **not specified**

Mental Training for Doctoral Researchers

Thursday, 6 September 2018 11:10 (20 minutes)

Presenter: BECKER, Werner (MPE Garching)

Session Classification: SPECIAL SEMINARS

Contribution ID: 72

Type: **not specified**

STRAW - Pathfinder for a Future Neutrino Telescope

Saturday, 8 September 2018 09:50 (10 minutes)

Presenter: HENNINGSEN, Felix

Session Classification: NEUTRINO PHYSICS