### IMPRS Young Scientist Workshop at Ringberg Castle

### **Report of Contributions**

Contribution ID: 0 Type: not specified

# Finding tau leptons originating from highly energetic particle decays

Thursday, 20 July 2017 11:35 (25 minutes)

**Presenter:** RENDEL, Marian

Session Classification: ATLAS OJECT RECONSTRUCTION

June 16, 2025

Contribution ID: 1 Type: not specified

#### Search for top squarks with the ATLAS detector

Thursday, 20 July 2017 15:15 (25 minutes)

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

Session Classification: ATLAS PHYSICS III

Contribution ID: 2 Type: not specified

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

Thursday, 20 July 2017 15:40 (20 minutes)

**Presenter:** GRAW, Jonas

Session Classification: ATLAS PHYSICS III

Contribution ID: 3 Type: not specified

### **Neural Networks in the Belle II Track Trigger**

Presenter: NEUHAUS, Sara

Type: not specified

Contribution ID: 4

# The Neuro-Z-Vertex Trigger of the Belle II Experiment

Presenter: SKAMBRAKS, Sebastian

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

#### **Module Tests of the Belle II Pixel Vertex Detector**

**Presenter:** LEITL, Philipp

Contribution ID: 6 Type: **not specified** 

## Scintillator tiles with SiPM readout for calorimetry and fast timing in SuperKEKB comissioning

Presenter: WINDEL, Hendrik

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

# The Belle II / SuperKEKB Commissioning Detector - Results from the First Commissioning Phase

Wednesday, 19 July 2017 09:00 (25 minutes)

Presenter: GABRIEL, Miroslav

**Session Classification:** BELLE PHYSICS I

Contribution ID: 8 Type: not specified

# CLAWS Phase 2: Beam background monitoring in the commissioning of SuperKEKB

Wednesday, 19 July 2017 09:25 (25 minutes)

Presenter: HEUCHEL, Daniel

**Session Classification:** BELLE PHYSICS I

Contribution ID: 9 Type: not specified

## How to make the PPSMC Colloquium more attractive?

Contribution ID: 10 Type: not specified

### Improving the PPSM Colloquium Peer Evaluation Form

Contribution ID: 11 Type: not specified

### **Preparing for the SAB Meeting**

Contribution ID: 12 Type: not specified

## Neutron background measurement for rare-event underground experiments

Tuesday, 18 July 2017 09:25 (25 minutes)

Presenter: DU, Quiang

**Session Classification:** RARE EVENT PHYSICS

Contribution ID: 13 Type: not specified

### **Closed Discussion on the Advisory Panel System**

Contribution ID: 14 Type: not specified

### Layered dielectric haloscopes: a new way to search for axion dark matter

**Presenter:** MILLAR, Alexander

Contribution ID: 15 Type: not specified

### Astrophysics at the TeV scale

**Presenter:** STRZYS, Marcel

**AWAKE** 

Contribution ID: 16 Type: not specified

#### **AWAKE**

**Presenter:** HÜTHER, Mathias

Contribution ID: 17 Type: not specified

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

Monday, 17 July 2017 16:35 (25 minutes)

Presenter: CERIBELLA, Giovanni

**Session Classification:** MAGIC PHYSICS

Contribution ID: 18 Type: not specified

### Plasma-based diagnostic for the SMI in AWAKE

Friday, 21 July 2017 11:00 (25 minutes)

Presenter: BACHMANN, Anna-Maria

**Session Classification:** AWAKE PHYSICS

Contribution ID: 19 Type: not specified

### Characterization of a segmented BEGe Detector

Friday, 21 July 2017 09:15 (25 minutes)

Presenter: SCHUSTER, Martin

Session Classification: GERMANIUM DETECTOR PHYSICS

Contribution ID: 20 Type: not specified

#### Influence of the Metallization on the Charge Collection Efficiency of Segmented Germanium Detector

Friday, 21 July 2017 09:40 (25 minutes)

Presenter: HAUTERMANN, Lukas

Session Classification: GERMANIUM DETECTOR PHYSICS

Contribution ID: 21 Type: not specified

### Development of novel pulse shape discrimination algorithms for Gerda

Friday, 21 July 2017 10:05 (25 minutes)

**Presenter:** HOLL, Philipp

Session Classification: GERMANIUM DETECTOR PHYSICS

Contribution ID: 22 Type: not specified

### Small Neutrino Masses from Gravitational Theta-Term

Presenter: FUNCKE, Lena

Contribution ID: 23 Type: not specified

#### **Introduction to Double Field Theory**

Tuesday, 18 July 2017 09:00 (25 minutes)

**Presenter:** DU BOSQUE, Pascal

**Session Classification:** STRING THEORY

Contribution ID: 24 Type: not specified

### Integrable toy models in string and gauge theory

**Presenter:** OSTEN, David

Contribution ID: 25 Type: not specified

### **String Phenomenology and Cosmology**

**Presenter:** WOLF, Florian

Contribution ID: 26 Type: not specified

#### Heavy quark potentials in effective string theory

Monday, 17 July 2017 15:45 (25 minutes)

**Presenter:** HWANG, Sungmin

Session Classification: THEORY

Contribution ID: 27 Type: not specified

#### Intro to AdS/CFT

Monday, 17 July 2017 16:10 (25 minutes)

Presenter: MIEKLEY, Nina

Session Classification: THEORY

Contribution ID: 28 Type: not specified

#### **Linux Unchained**

**Presenter:** PAPARA, Viktor

Contribution ID: 29 Type: not specified

## Quantum Gravity Constraints on Large Field Inflation

Thursday, 20 July 2017 11:10 (25 minutes)

Presenter: KLÄWER, Daniel

**Session Classification:** STRING COSMOLOGY

Contribution ID: 30 Type: not specified

### **Stringy Axion Inflation**

Thursday, 20 July 2017 10:45 (25 minutes)

Presenter: WOLF, Florian

**Session Classification:** STRING COSMOLOGY

Contribution ID: 31 Type: not specified

### HZZ Tensor structure measurements in the pp -> H -> ZZ-> 4l channel with the ATLAS Detector

Monday, 17 July 2017 14:00 (25 minutes)

Presenter: WALBRECHT, Verena

**Session Classification:** ATLAS PHYSICS I

Contribution ID: 32 Type: not specified

### Searches for diboson resonances with the ATLAS detector

Monday, 17 July 2017 14:25 (25 minutes)

Searches for diboson resonances w...

**Presenter:** HÖNLE, Andreas

Session Classification: ATLAS PHYSICS I

Contribution ID: 33 Type: not specified

## Search for displaced dileptons with the ATLAS experiment at the LHC

Monday, 17 July 2017 14:50 (25 minutes)

Presenter: KRAUSS, Dominik

**Session Classification:** ATLAS PHYSICS I

Contribution ID: 35 Type: not specified

### **About Holography**

**Presenter:** NEWRZELLA, Max

Contribution ID: 37 Type: not specified

### **Phonon Focusing in Cryogenic Detectors**

**Presenter:** ROTHE, Johannes

Contribution ID: 38 Type: not specified

### Time dependent CP-violation studies at Belle II

Thursday, 20 July 2017 09:00 (25 minutes)

Presenter: ABUDINEN, Fernando

Session Classification: BELLE PHYSICS II

Contribution ID: 39 Type: not specified

### Track vertex reconstruction with neural networks at the first level trigger of Belle II

Thursday, 20 July 2017 09:25 (25 minutes)

Presenter: POHL, Sara

Session Classification: BELLE PHYSICS II

Contribution ID: 40 Type: not specified

### Cosmic-ray neutron and muon-induced background

**Presenter:** VANHOEFER, Laura

Contribution ID: 41 Type: not specified

#### keV dark matter and structure formation

Tuesday, 18 July 2017 11:10 (30 minutes)

keV dark matter and structure for ...

**Presenter:** TOTZAUER, Max

Session Classification: DARK MATTER PHYSICS II

Contribution ID: 42 Type: not specified

#### **Welcome & Introduction Round**

Monday, 17 July 2017 11:30 (30 minutes)

Contribution ID: 43 Type: not specified

### **Data Analysis for CRESST**

Monday, 17 July 2017 12:00 (30 minutes)

**Presenter:** BAUER, Philipp

Session Classification: DARK MATTER PHYSICS I

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

#### **Theoretical Foundations of Dielectric Haloscopes**

Tuesday, 18 July 2017 11:40 (25 minutes)

Presenter: MILLAR, Alexander

Session Classification: DARK MATTER PHYSICS II

Contribution ID: 45 Type: not specified

# Searching for Dark Matter Axions with a Dielectric Haloscope

Tuesday, 18 July 2017 12:05 (25 minutes)

Presenter: KNIRCK, Stefan

Session Classification: DARK MATTER PHYSICS II

Contribution ID: 46 Type: not specified

### Search for dark matter in the mono-Higgs channel

Tuesday, 18 July 2017 14:25 (25 minutes)

Presenter: RÖHRIG, Rainer

**Session Classification:** ATLAS PHYSICS II

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

### Search for dark matter in association with hadronic vector boson decays

Tuesday, 18 July 2017 14:00 (25 minutes)

**Presenter:** GADOW, Philipp

**Session Classification:** ATLAS PHYSICS II

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

### Development and test of new sMDT chambers and electronics for ATLAS

**Presenter:** SCHMIDT-SOMMERFELD, Korbinian

Contribution ID: 50 Type: not specified

#### **Collective Effects of Neutrinos**

**Presenter:** STIRNER, Tobias

Contribution ID: 51 Type: not specified

### The Belle II Pixel Vertex Detector - Mainproduction Module Tests

Tuesday, 18 July 2017 15:50 (25 minutes)

**Presenter:** LEITL, Philipp

Session Classification: DETECTOR PHYSICS II

Contribution ID: 52 Type: not specified

### **Future High Energy e+e- - Experiments**

Tuesday, 18 July 2017 10:15 (25 minutes)

**Presenter:** GRAF, Christian

**Session Classification:** DETECTOR PHYSICS I

Contribution ID: 53 Type: not specified

# Background suppression with neural networks at the Belle II Trigger

Thursday, 20 July 2017 09:50 (25 minutes)

Presenter: SKAMBRAKS, Sebastian

Session Classification: BELLE PHYSICS II

Contribution ID: 54 Type: not specified

### Understanding the performance of the ATLAS detector

Thursday, 20 July 2017 12:00 (30 minutes)

**Presenter:** JUNGGEBURTH, Johannes

Session Classification: ATLAS OJECT RECONSTRUCTION

Contribution ID: 55 Type: not specified

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

Tuesday, 18 July 2017 09:50 (25 minutes)

Presenter: BRUNST, Tim

**Session Classification:** RARE EVENT PHYSICS

Contribution ID: 56 Type: not specified

# Scintillator tiles with SiPM readout for fast timing in SuperKEKB commissioning

Wednesday, 19 July 2017 09:50 (25 minutes)

**Presenter:** WINDEL, Hendrik

**Session Classification:** BELLE PHYSICS I

Contribution ID: 57 Type: not specified

# Interferometer-based white light measurement of neutral rubidium density for the AWAKE experiment at CERN

Friday, 21 July 2017 11:25 (25 minutes)

Presenter: BATSCH, Fabian

**Session Classification:** AWAKE PHYSICS

Contribution ID: 58 Type: not specified

### A SMI seeding concept for AWAKE Run 2

Friday, 21 July 2017 11:50 (25 minutes)

**Presenter:** HÜTHER, Mathias

**Session Classification:** AWAKE PHYSICS

Contribution ID: 59 Type: not specified

### From Cosmology to Investment Banking IT

Thursday, 20 July 2017 17:00 (30 minutes)

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

Session Classification: JOB OPPORTUNITIES III

Contribution ID: **60** Type: **not specified** 

#### Job advice: Unconventional Career Paths

Tuesday, 18 July 2017 16:15 (30 minutes)

**Presenter:** Prof. AKERBLOM, Nikolas (Hochschule Heilbronn / Heilbronn University)

Session Classification: JOB OPPORTUNITIES I

Contribution ID: 61 Type: not specified

# Improvement of energy reconstruction by using machine learning algorithms in MAGIC

Monday, 17 July 2017 17:00 (25 minutes)

Presenter: ISHIO, Kazuma

**Session Classification:** MAGIC PHYSICS

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

### Ensuring good scientific practice, what does this mean?

Tuesday, 18 July 2017 14:50 (30 minutes)

**Presenter:** Dr MAJOROVITS, Bela

Session Classification: SPECIAL SEMINAR

Contribution ID: 63 Type: not specified

### **Becoming a Patent Attorney**

Thursday, 20 July 2017 16:30 (30 minutes)

**Presenter:** Dr HELD, Johannes

**Session Classification:** JOB OPPORTUNITIES III

Contribution ID: 64 Type: not specified

### MedAustron - Cancer Treatment with Particle Therapy

Wednesday, 19 July 2017 19:45 (45 minutes)

**Presenter:** Dr NOWAK, Sebastian (MedAustron)

Session Classification: JOB OPPORTUNITIES II

Contribution ID: 65 Type: not specified

#### A Global Bayesian Analysis of Neutrino Mass Data

Wednesday, 19 July 2017 10:15 (50 minutes)

**Presenter:** Dr MERLE, Alexander

**Session Classification:** KEYNOTE LECTURE