

# **IMPRS Young Scientist Workshop at Ringberg Castle**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome

*Sunday, 13 September 2020 20:00 (30 minutes)*

Welcome and introduction to Ringberg Castle and the C19 imposed guidelines

**Presenters:** STEFFEN, Frank; ZANDERIGHI, Giulia

Contribution ID: 2

Type: **not specified**

## **eV Sterile neutrinos with KATRIN**

*Sunday, 13 September 2020 20:30 (20 minutes)*

**Presenter:** SCHLÜTER, Lisa

**Session Classification:** NEUTRINO PHYSICS I

Contribution ID: 3

Type: **not specified**

# **Statistical methods for the final data analysis of GERDA**

*Sunday, 13 September 2020 20:50 (20 minutes)*

**Presenter:** SHTEMBARI, Lolian

**Session Classification:** NEUTRINO PHYSICS I

Contribution ID: 4

Type: **not specified**

## **Search for cosmic neutrino sources with ICECUBE**

*Sunday, 13 September 2020 21:10 (20 minutes)*

**Presenter:** KARL, Martina

**Session Classification:** NEUTRINO PHYSICS I

Contribution ID: 5

Type: **not specified**

## **Background-free 0vbb decay search with LEGEND**

*Monday, 14 September 2020 09:10 (20 minutes)*

**Presenter:** FISCHER, Felix

**Session Classification:** GERMANIUM DETECTOR PHYSICS

Contribution ID: 6

Type: **not specified**

# **Temperature dependence of Charge Carrier Drift in Germanium Detectors**

*Monday, 14 September 2020 09:30 (20 minutes)*

**Presenter:** SCHUSTER, Martin

**Session Classification:** GERMANIUM DETECTOR PHYSICS

Contribution ID: 7

Type: **not specified**

## **Scanning the inner parts of germanium detectors with a Compton Scanner**

*Monday, 14 September 2020 09:50 (20 minutes)*

**Presenter:** HAGEMANN, Felix

**Session Classification:** GERMANIUM DETECTOR PHYSICS



Contribution ID: 8

Type: **not specified**

## **Characterization of point contact Germanium detectors for $0\nu\beta\beta$ decay searches**

*Monday, 14 September 2020 10:10 (20 minutes)*

**Presenter:** EDZARDS, Frank

**Session Classification:** GERMANIUM DETECTOR PHYSICS

Contribution ID: 9

Type: **not specified**

# Neutrino Flavor Instabilities in Core-Collapse Supernovae

*Monday, 14 September 2020 11:00 (20 minutes)*

**Presenter:** EHRING, Jakob

**Session Classification:** THEORETICAL NEUTRINO & ASTROPARTICLE PHYSICS

Contribution ID: 10

Type: **not specified**

## **Superfluid dark matter and small scale structures**

*Monday, 14 September 2020 11:20 (20 minutes)*

**Presenter:** CINTIA, Giordano

**Session Classification:** THEORETICAL NEUTRINO & ASTROPARTICLE PHYSICS

Contribution ID: 11

Type: **not specified**

## Quantum breaking of BEC: facts and fantasies

*Monday, 14 September 2020 11:40 (20 minutes)*

**Presenter:** ZANTEDESCHI, Michael

**Session Classification:** THEORETICAL NEUTRINO & ASTROPARTICLE PHYSICS

Contribution ID: 12

Type: **not specified**

## **Analytical results on symmetry non-breaking for finite-volume systems**

*Monday, 14 September 2020 12:00 (20 minutes)*

**Presenter:** KOVTUN, Andrei

**Session Classification:** THEORETICAL NEUTRINO & ASTROPARTICLE PHYSICS

Contribution ID: 13

Type: **not specified**

# Geometric Flows and the Swampland Distance Conjecture

*Monday, 14 September 2020 14:00 (20 minutes)*

**Presenter:** FREIGANG, Julian

**Session Classification:** STRING THEORY

Contribution ID: 14

Type: **not specified**

# From the Riemannian Hypothesis to String Phenomenology

*Monday, 14 September 2020 14:20 (20 minutes)*

**Presenter:** SCHLECHTER, Lorenz

**Session Classification:** STRING THEORY

Contribution ID: 15

Type: **not specified**

## **Scale Separation in String Theory**

*Monday, 14 September 2020 14:40 (20 minutes)*

**Presenter:** MAKRIDOU, Andriana

**Session Classification:** STRING THEORY



Contribution ID: 16

Type: **not specified**

## **No global symmetries in quantum gravity**

*Monday, 14 September 2020 15:00 (20 minutes)*

**Presenter:** BRINKMANN, Max

**Session Classification:** STRING THEORY

Contribution ID: 17

Type: **not specified**

## **Symmetries and Machine Learning**

*Monday, 14 September 2020 15:20 (20 minutes)*

**Presenter:** SYVAERI, Marc

**Session Classification:** STRING THEORY

Contribution ID: **18**

Type: **not specified**

# **First measurement of lepton flavour violating decays at Belle II**

*Monday, 14 September 2020 16:10 (20 minutes)*

**Presenter:** KRAETZSCHMAR, Thomas

**Session Classification:** EXPERIMENTAL ACCELERATOR PHYSICS

Contribution ID: 19

Type: **not specified**

## **What do we really know about the proton? ... and what did HERA tell us?**

*Monday, 14 September 2020 16:30 (1 hour)*

**Presenter:** ABT, Iris

**Session Classification:** EXPERIMENTAL ACCELERATOR PHYSICS

Contribution ID: 20

Type: **not specified**

## **GUIDED TOUR - CASTLE RINGBERG**

*Monday, 14 September 2020 17:30 (1 hour)*

**Presenter:** ESSL, Jochen

Contribution ID: 21

Type: **not specified**

## **Efficiency Skills for Scientists: Get the Same Done in Less Time**

*Tuesday, 15 September 2020 09:00 (1h 30m)*

**Presenter:** Dr ROHR, Carsten

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 22

Type: **not specified**

## **Self-Care in Academia as an Essential Skill**

*Tuesday, 15 September 2020 09:00 (1h 30m)*

**Presenter:** Dr SCHNEEBERG, Ulrike

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 23

Type: **not specified**

## **Efficiency Skills for Scientists: Get the Same Done in Less Time**

*Tuesday, 15 September 2020 11:00 (1h 30m)*

**Presenter:** Dr ROHR, Carsten

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)



Contribution ID: 26

Type: **not specified**

## **Self-Care in Academia as an Essential Skill**

*Tuesday, 15 September 2020 11:00 (1h 30m)*

**Presenter:** Dr SCHNEEBERG, Ulrike

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 27

Type: **not specified**

## **Efficiency Skills for Scientists: Get the Same Done in Less Time**

*Tuesday, 15 September 2020 14:00 (1h 30m)*

**Presenter:** Dr ROHR, Carsten

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 28

Type: **not specified**

## **Self-Care in Academia as an Essential Skill**

*Tuesday, 15 September 2020 14:00 (1h 30m)*

**Presenter:** Dr SCHNEEBERG, Ulrike

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 29

Type: **not specified**

## **Efficiency Skills for Scientists: Get the Same Done in Less Time**

*Tuesday, 15 September 2020 16:00 (1h 10m)*

**Presenter:** Dr ROHR, Carsten

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: **30**

Type: **not specified**

## **Self-Care in Academia as an Essential Skill**

*Tuesday, 15 September 2020 16:00 (1h 10m)*

**Presenter:** Dr SCHNEEBERG, Ulrike

**Session Classification:** TRANSFERABLE SKILLS TRAININGS (in parallel)

Contribution ID: 31

Type: **not specified**

## **A statistical view on the joy and misery of PhD life**

*Tuesday, 15 September 2020 17:10 (1h 20m)*

**Presenter:** HECKMANN, Lea-Alina

**Session Classification:** IMPRS STUDENT LIFE

Contribution ID: 32

Type: **not specified**

# **Introduction to Collider Physics: Precision QCD at the LHC**

*Wednesday, 16 September 2020 09:10 (1 hour)*

**Presenter:** WIESEMANN, Marius

**Session Classification:** PRECISION PHENOMENOLOGY

Contribution ID: 33

Type: **not specified**

## **Struggling for high-precisions LHC phenomenology: the NNLO frontier**

*Wednesday, 16 September 2020 10:10 (20 minutes)*

**Presenter:** LOMBARDI, Daniele

**Session Classification:** PRECISION PHENOMENOLOGY



Contribution ID: 34

Type: **not specified**

## **Probing the trilinear HIGGS coupling indirectly: an EFT approach**

*Wednesday, 16 September 2020 11:00 (20 minutes)*

**Presenter:** KOOLE , Gabriel

**Session Classification:** EFFECTIVE FIELD THEORY

Contribution ID: 35

Type: **not specified**

## **Next-to-leading order Goldstone masses in Chiral-Scale Perturbation Theory**

*Wednesday, 16 September 2020 11:20 (20 minutes)*

**Presenter:** MUELLER, Christoph

**Session Classification:** EFFECTIVE FIELD THEORY

Contribution ID: 36

Type: **not specified**

## **Proton decay in GRSMEFT**

*Wednesday, 16 September 2020 11:40 (20 minutes)*

**Presenter:** HALA, Amando

**Session Classification:** EFFECTIVE FIELD THEORY

Contribution ID: 37

Type: **not specified**

## **Juan VALBUENA BERMUDEZ - Selfcare / Johannes DIEHL - Efficiency**

*Wednesday, 16 September 2020 12:00 (20 minutes)*

**Session Classification:** SUMMARY FROM THE SOFTSKILL WORKSHOPS

Contribution ID: **38**

Type: **not specified**

## **12:20 CLOSING WORDS & GROUP PICTURE**

*Wednesday, 16 September 2020 12:20 (10 minutes)*