

FH Fellow Meeting 2023

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and organisation

Friday 21 April 2023 13:00 (10 minutes)

Presenters: HEINEMANN, Beate (DESY and University of Freiburg (Germany)); SCHÖRNER, Thomas (DESY)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 2

Type: **not specified**

New silicon strips for ATLAS

Friday 21 April 2023 13:10 (7 minutes)

Presenter: BRUEERS, Ben (Z_ATUP (ATLAS-Upgrade))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 3

Type: **not specified**

BabyIAXO: a new generation axion helioscope at DESY

Friday 28 April 2023 15:18 (7 minutes)

Presenter: HEUCHEL, Daniel (DESY)

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 4

Type: **not specified**

My life with Heavy Higgs': A Journey Beyond the Standard Model

Friday 21 April 2023 13:24 (7 minutes)

Presenter: JONES, Eleanor (ATLAS (ATLAS-Experiment))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 5

Type: **not specified**

Turning on the Lights in ALPS II

Friday 21 April 2023 13:31 (7 minutes)

Presenter: KOZLOWSKI, Todd (ALPS (ALPS _ Any Light Particle Search))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 6

Type: **not specified**

My adventure in ATLAS or: how I learned to stop worrying and love the W mass

Friday 21 April 2023 13:38 (7 minutes)

Presenter: DATTOLA, Filippo (ATLAS (ATLAS-Experiment))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 7

Type: **not specified**

Probing New Physics with Pulsar Timing Arrays

Friday 21 April 2023 13:45 (7 minutes)

Presenter: MITRIDATE, Andrea (DESY)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 8

Type: **not specified**

Evolving digital detectors

Friday 21 April 2023 14:40 (7 minutes)

Presenter: FEINDT, Finn (ATLAS (ATLAS-Experiment))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 9

Type: **not specified**

New tools for precision collider physics

Friday 28 April 2023 15:25 (7 minutes)

Presenter: PATHAK, Aditya (DESY)

Session Classification: FH Fellow Meeting Block 2

Contribution ID: **10**

Type: **not specified**

$E=mc^2$ in action: Creating matter from light at the ATLAS Experiment

Friday 21 April 2023 14:26 (7 minutes)

Presenter: CLAWSON, Savannah (ATLAS (ATLAS-Experiment))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: **11**

Type: **not specified**

Effective Field Theory: a framework to connect physics at different scales

Friday 28 April 2023 13:12 (7 minutes)

Presenter: VUONG, Hoa (T (Phenomenology))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 12

Type: **not specified**

From energy frontier to precision measurement

Friday 28 April 2023 13:05 (7 minutes)

Presenter: BECHERER, Fabian (BELLE (BELLE II Experiment))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: **13**

Type: **not specified**

Welcome and intro

Friday 28 April 2023 13:00 (5 minutes)

Presenter: HEINEMANN, Beate (DESY and University of Freiburg (Germany))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 14

Type: **not specified**

Searching for new stuff at CMS

Friday 28 April 2023 13:19 (7 minutes)

Presenter: NIEDZIELA, Jeremi (None)

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 15

Type: **not specified**

Neural Networks for Beyond the Standard Model searches

Friday 28 April 2023 13:26 (7 minutes)

Presenter: STYLIANOU, Panagiotis (T (Phenomenology))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 16

Type: **not specified**

“Integrating the new silicon strip detector for ATLAS

Friday 28 April 2023 13:33 (7 minutes)

Presenter: FRANCONI, Laura (ATLAS (ATLAS-Experiment))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 17

Type: **not specified**

Extending the SMEFT

Friday 28 April 2023 13:40 (7 minutes)

Presenter: SOUSA FIALHO GUEDES, Guilherme Luis de (T (Phenomenology))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: **18**

Type: **not specified**

Belle II Silicon Tracker Upgrade sprechen

Friday 28 April 2023 14:10 (7 minutes)

Presenter: WESSEL, Christian (BELLE (BELLE Gruppe))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: **19**

Type: **not specified**

TF Scientific Computing

Friday 21 April 2023 15:00 (10 minutes)

Presenter: WISSING, Christoph (DESY)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: **21**

Type: **not specified**

TF Detector R&D

Friday 21 April 2023 15:20 (10 minutes)

Presenter: BEHNKE, Ties (DESY)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 22

Type: **not specified**

Sustainability Forum

Friday 21 April 2023 15:30 (10 minutes)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 23

Type: **not specified**

"Homework" assignment organisation

Friday 21 April 2023 16:00 (20 minutes)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 24

Type: **not specified**

Presentation of "homework" assignments

Friday 28 April 2023 15:45 (1 hour)

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 25

Type: **not specified**

Summary and farewell

Friday 28 April 2023 16:50 (10 minutes)

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 26

Type: **not specified**

My research journey into lattice QCD

Friday 21 April 2023 14:33 (7 minutes)

Presenter: BARCA, Lorenzo (Z_ZPPT (Zeuthen Particle PhysicsTheory))

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 27

Type: **not specified**

Quantum Machine Learning for Particle Physics

Friday 28 April 2023 14:17 (7 minutes)

Presenter: Dr VARO GARCIA, Maria del Valle (CQTA (Centre f. Quantum Techno. a. Application))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 28

Type: **not specified**

Machine Learning in Higgs searches at ATLAS experiment

Friday 28 April 2023 14:24 (7 minutes)

Presenter: KUMARI, Neelam (ATLAS (ATLAS SM and Beyond))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 29

Type: **not specified**

Proton Structure at high Precision

Friday 28 April 2023 14:31 (7 minutes)

Presenter: CRIDGE, Thomas (T (Phenomenology))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 30

Type: **not specified**

Some Challenges and Perspectives for Quantum Computing Applications in Lattice Gauge Theories

Friday 28 April 2023 14:45 (7 minutes)

Presenter: CLEMENTE, Giuseppe (Z_ZPPT (Zeuthen Particle PhysicsTheory))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 31

Type: **not specified**

Z boson pair production in the Geneva NNLO event generator

Friday 28 April 2023 14:38 (7 minutes)

Presenter: GAVARDI, Alessandro (T (Phenomenology))

Session Classification: FH Fellow Meeting Block 2

Contribution ID: 32

Type: **not specified**

General / communication questions

Friday 21 April 2023 14:50 (7 minutes)

Presenter: SCHÖRNER, Thomas (DESY)

Session Classification: FH Fellow Meeting Block 1

Contribution ID: 33

Type: **not specified**

Detectors for colliders: to the future and beyond

Friday 28 April 2023 15:35 (7 minutes)

Presenter: LAUDRAIN, Antoine (FH (Forschung Hochenergiephysik))

Session Classification: FH Fellow Meeting Block 2