XXVII Cracow EPIPHANY Conference on Future of particle physics

Report of Contributions

XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Welcome from DG

Contribution ID: 1

Type: not specified

Welcome from DG

Thursday 7 January 2021 09:30 (20 minutes)

Presenter: LESIAK, Tadeusz (Polish Academy of Sciences (PL))

Session Classification: Introductions

Strategies and plans for particle p $\,\cdots\,$

Contribution ID: 2

Type: not specified

Strategies and plans for particle physics in Europe

Thursday 7 January 2021 09:50 (45 minutes)

Presenter: D'HONDT, Jorgen (Vrije Universiteit Brussel (BE)) **Session Classification:** Introductions

The many opportunities and chal $\,\cdots\,$

Contribution ID: 3

Type: not specified

The many opportunities and challenges of the FCC

Thursday 7 January 2021 11:05 (45 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH)) **Session Classification:** Overview XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Status of the CEPC project

Contribution ID: 4

Type: not specified

Status of the CEPC project

Thursday 7 January 2021 11:50 (45 minutes)

Presenter: WANG, Jianchun (Chinese Academy of Sciences (CN))

Session Classification: Overview

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B-physics anomalies: lessons and …

Contribution ID: 5

Type: not specified

B-physics anomalies: lessons and open issues

Thursday 7 January 2021 15:45 (35 minutes)

Presenter: ISIDORI, Gino (Universitaet Zuerich (CH)) **Session Classification:** Flavour

The Belle II Experiment: First Re \cdots

Contribution ID: 6

Type: not specified

The Belle II Experiment: First Results, Status, and Prospects

Thursday 7 January 2021 16:20 (35 minutes)

Presenter: CUNLIFFE, Sam (DESY)

Session Classification: Flavour

LHCb: Overview of Run2 results

Contribution ID: 7

Type: not specified

LHCb: Overview of Run2 results

Saturday 9 January 2021 15:45 (35 minutes)

Presenters: NEEDHAM, Matthew David (The University of Edinburgh (GB)); NEEDHAM, Matthew David (The University of Edinburgh (GB))

Session Classification: Flavour

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Non-local matrix elements in b-> s ll

Contribution ID: 8

Type: not specified

Non-local matrix elements in b-> s ll

Saturday 9 January 2021 16:20 (25 minutes)

Presenter: Dr GUBERNARI, Nico (Universität Siegen) **Session Classification:** Flavour

Run2 highlights from the ATLAS …

Contribution ID: 9

Type: not specified

Run2 highlights from the ATLAS experiment

Thursday 7 January 2021 14:05 (35 minutes)

Presenter: GUILLEMIN, Thibault (Centre National de la Recherche Scientifique (FR)) **Session Classification:** LHC XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Overview of CMS results

Contribution ID: 10

Type: not specified

Overview of CMS results

Thursday 7 January 2021 14:40 (35 minutes)

Presenter: CLERBAUX, Barbara (Universite Libre de Bruxelles (BE)) **Session Classification:** LHC XXVII Cracow E \cdots / Report of Contributions

Higgs measurements at the e+e- c ...

Contribution ID: 11

Type: not specified

Higgs measurements at the e+e- colliders.

Friday 8 January 2021 11:15 (35 minutes)

Presenter: KLUTE, Markus (Massachusetts Inst. of Technology (US)) **Session Classification:** Higgs Physics XXVII Cracow E ···· / Report of Contributions

Extended scalar sectors at future ···

Contribution ID: 12

Type: not specified

Extended scalar sectors at future colliders

Friday 8 January 2021 11:50 (35 minutes)

Presenter: ROBENS, Tania Natalie (Rudjer Boskovic Institute (HR)) **Session Classification:** Higgs Physics

The Search for Right-Handed Ne $\,\cdots\,$

Contribution ID: 13

Type: not specified

The Search for Right-Handed Neutrinos

Friday 8 January 2021 09:00 (35 minutes)

Presenter: DREWES, Marco (Universite Catholique de Louvain (UCL) (BE)) **Session Classification:** Long Living Particles XXVII Cracow E \cdots / Report of Contributions

Long-lived particles at future coll \cdots

Contribution ID: 14

Type: not specified

Long-lived particles at future colliders

Friday 8 January 2021 09:35 (35 minutes)

Presenter: GONZALEZ SUAREZ, Rebeca (Uppsala University (SE)) **Session Classification:** Long Living Particles

The FASER Experiment

Contribution ID: 15

Type: not specified

The FASER Experiment

Friday 8 January 2021 10:10 (35 minutes)

Presenter: KAJOMOVITZ MUST, Enrique (Technion, Israel Institute of Technology) **Session Classification:** Long Living Particles

On the role of the precision Monte \cdots

Contribution ID: 16

Type: not specified

On the role of the precision Monte Carlo generators in future electron colliders

Friday 8 January 2021 15:05 (35 minutes)

Presenter: JADACH, Staszek (Polish Academy of Sciences (PL)) **Session Classification:** Electroweak physics XXVII Cracow E \cdots / Report of Contributions

Theory needs for future e+e- coll ...

Contribution ID: 17

Type: not specified

Theory needs for future e+e- colliders

Friday 8 January 2021 15:40 (35 minutes)

Presenter: FREITAS, Ayres (University of Pittsburgh) **Session Classification:** Electroweak physics XXVII Cracow E ···· / Report of Contributions

A storage ring proton EDM exper ···

Contribution ID: 18

Type: not specified

A storage ring proton EDM experimental method with a hybrid and highly symmetric electric ring lattice

Friday 8 January 2021 14:30 (35 minutes)

Presenter: Prof. SEMERTZIDIS, Yannis (IBS/CAPP and KAIST in Republic of Korea (South Korea))

Session Classification: Electroweak physics

EIC Project Overview

Contribution ID: 19

Type: not specified

EIC Project Overview

Saturday 9 January 2021 13:30 (35 minutes)

Presenter: Prof. YECK, James

Session Classification: Hadronic and others

Baryon number in proton-proton ···

Contribution ID: 20

Type: not specified

Baryon number in proton-proton and proton-nucleus high energy collisions

Saturday 9 January 2021 14:05 (35 minutes)

Author: JEZABEK, Marek (Polish Academy of Sciences (PL))
Co-author: RYBICKI, Andrzej (Polish Academy of Sciences (PL))
Presenter: JEZABEK, Marek (Polish Academy of Sciences (PL))
Session Classification: Hadronic and others

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M-theory and the birth of the Un $\,\cdots\,$

Contribution ID: 21

Type: not specified

M-theory and the birth of the Universe

Saturday 9 January 2021 14:40 (35 minutes)

Presenter: KLINKHAMER, Frans (Karlsruhe Institute of Technology) **Session Classification:** Hadronic and others

FCC software for physics and det \cdots

Contribution ID: 22

Type: not specified

FCC software for physics and detector studies

Sunday 10 January 2021 10:30 (35 minutes)

Presenter: HELSENS, Clement (CERN) **Session Classification:** Computing

Key4HEP - Turnkey Software for …

Contribution ID: 23

Type: not specified

Key4HEP - Turnkey Software for Future Colliders

Sunday 10 January 2021 11:05 (35 minutes)

Presenter: MADLENER, Thomas (Deutsches Elektronen-Synchrotron (DESY)) **Session Classification:** Computing XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Tetraquark production at LHC an $\,\cdots\,$

Contribution ID: 24

Type: not specified

Tetraquark production at LHC and FCC

Presenter: SZCZUREK, Antoni (Institute of Nuclear Physics) **Session Classification:** Flavour

S channel Higgs production

Contribution ID: 25

Type: not specified

S channel Higgs production

Friday 8 January 2021 12:25 (35 minutes)

Presenter: D'ENTERRIA, David (CERN) **Session Classification:** Higgs Physics

Detector simulation for a potenti ...

Contribution ID: 26

Type: not specified

Detector simulation for a potential upgrade of the vertex detector of the Belle II experiment

Sunday 10 January 2021 12:40 (15 minutes)

Presenter: FILINGER, Tristan **Session Classification:** PhD student session

Early charmless B decay results f …

Contribution ID: 27

Type: not specified

Early charmless B decay results from Belle II

Sunday 10 January 2021 12:55 (15 minutes)

Presenter: CHEN, Janice

Session Classification: PhD student session

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Early tau lifetime measurements ···

Contribution ID: 28

Type: not specified

Early tau lifetime measurements with Belle II

Sunday 10 January 2021 13:10 (15 minutes)

Presenter: MONETA, Stefano

Session Classification: PhD student session

Search for Axion-like Particles at ···

Contribution ID: 29

Type: not specified

Search for Axion-like Particles at Belle II

Sunday 10 January 2021 13:25 (15 minutes)

Presenter:DE NUCCIO, Michael (Deutsches Elektronen-Synchrotron DESY)Session Classification:PhD student session

Mixing and CP violation in charm ···

Contribution ID: 30

Type: not specified

Mixing and CP violation in charm mesons at LHCb

Sunday 10 January 2021 13:40 (15 minutes)

Presenter: SHIELDS, Edward (Universita & INFN, Milano-Bicocca (IT)) **Session Classification:** PhD student session XXVII Cracow E ··· / Report of Contributions

Measurement of the associated p $\,\cdots\,$

Contribution ID: 31

Type: not specified

Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum with the ATLAS detector

Sunday 10 January 2021 13:55 (15 minutes)

Presenter: FOTI, Maria Giovanna (University of Oxford (GB))Session Classification: PhD student session

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Measurement of the Higgs Simpl ...

Contribution ID: 32

Type: not specified

Measurement of the Higgs Simplified Template Cross Sections using $H \rightarrow yy$ decays with the ATLAS experiment

Sunday 10 January 2021 16:25 (15 minutes)

Presenter: FRANCO, Luca (Centre National de la Recherche Scientifique (FR)) **Session Classification:** PhD student session XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Searches for \boxtimes ' and \boxtimes ' in leptonic \cdots

Contribution ID: 33

Type: not specified

Searches for \boxtimes ' and \boxtimes ' in leptonic final states using 139 \boxtimes -1 of \boxtimes collision data collected at $\sqrt{\boxtimes}$ = 13 TeV with the ATLAS detector

Sunday 10 January 2021 16:10 (15 minutes)

Presenter: O'KEEFE, Michael William (University of Liverpool (GB)) **Session Classification:** PhD student session

Exclusive dilepton production in ···

Contribution ID: 34

Type: not specified

Exclusive dilepton production in ultraperipheral lead-lead collisions in the ATLAS experiment

Sunday 10 January 2021 17:25 (15 minutes)

Presenter: OGRODNIK, Agnieszka Ewa (AGH University of Science and Technology (PL)) **Session Classification:** PhD student session

Evolution of spin polarization in t \cdots

Contribution ID: 35

Type: not specified

Evolution of spin polarization in the Gubser flow background

Sunday 10 January 2021 14:40 (15 minutes)

Presenter: Mr SINGH, Rajeev (Institute of Nuclear Physics Polish Academy of Sciences)**Session Classification:** PhD student session

Terrestrial keV Sterile Neutrino D …

Contribution ID: 36

Type: not specified

Terrestrial keV Sterile Neutrino Dark Matter Searches: Alive and Kicking

Sunday 10 January 2021 15:10 (15 minutes)

Presenter: Ms BENSO, Cristina (Max Planck Institute for Nuclear Physics in Heidelberg) **Session Classification:** PhD student session

Comparison of Machine Learning ···

Contribution ID: 37

Type: not specified

Comparison of Machine Learning Approach to other Commonly Used Unfolding Methods

Sunday 10 January 2021 14:25 (15 minutes)

Presenter: BARON, Petr (Palacky University (CZ)) **Session Classification:** PhD student session

Sector Decomposition Scheme for \cdots

Contribution ID: 38

Type: not specified

Sector Decomposition Scheme for N^3LO Beam Function.

Sunday 10 January 2021 16:40 (15 minutes)

Presenter:GODA, Tomoki (IFJ PAN)Session Classification:PhD student session

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Analytic representation of all pla ...

Contribution ID: 39

Type: not specified

Analytic representation of all planar two-loop five-point Master Integrals with one off-shell leg

Sunday 10 January 2021 16:55 (15 minutes)

Presenter: SYRRAKOS, Nikolaos (NCSR DEMOKRITOS) **Session Classification:** PhD student session

A method for the measurement of \cdots

Contribution ID: 40

Type: not specified

A method for the measurement of J/psi cross section in hadronic matter using femtoscopy.

Sunday 10 January 2021 14:55 (15 minutes)

Presenter: BAHMANI, Marzieh (Polish Academy of Sciences (PL)) **Session Classification:** PhD student session

Angular observables in the B $\,\cdots\,$

Contribution ID: 41

Type: not specified

Angular observables in the B0 \rightarrow K*0 µ+µ- decay at LHCb.

Sunday 10 January 2021 15:25 (15 minutes)

Presenter:BORSUK, Jozef Tomasz (Polish Academy of Sciences (PL))Session Classification:PhD student session

Spectroscopy in beauty decays at …

Contribution ID: 42

Type: not specified

Spectroscopy in beauty decays at the LHCb experiment

Sunday 10 January 2021 15:40 (15 minutes)

Presenter: OVSIANNIKOVA, Tatiana (NRC "Kurchatov Institute" (ITEP) (RU)) **Session Classification:** PhD student session XXVII Cracow E $\ \cdots \ /$ Report of Contributions

Polish FCC day

Contribution ID: 43

Type: not specified

Polish FCC day

Saturday 9 January 2021 09:00 (3 hours)

The agenda is available: https://indico.cern.ch/event/987694/

Session Classification: Polish FCC day (the agenda available at: https://indico.cern.ch/event/987694/)

Simplified Differential Equations ···

Contribution ID: 44

Type: not specified

Simplified Differential Equations for Master Integrals @ N3LO

Sunday 10 January 2021 17:10 (15 minutes)

Presenter: CANKO, Dhimiter (NSCR "Demokritos") **Session Classification:** PhD student session XXVII Cracow E $\ \cdots \ /$ Report of Contributions

ttbar at FCC

Contribution ID: 45

Type: not specified

ttbar at FCC

Sunday 10 January 2021 09:35 (25 minutes)

Presenter: ANDREA, Jeremy (Centre National de la Recherche Scientifique (FR)) **Session Classification:** ttbar production XXVII Cracow E \cdots / Report of Contributions

Tetraquark production at LHC an $\,\cdots\,$

Contribution ID: 46

Type: not specified

Tetraquark production at LHC and FCC

Sunday 10 January 2021 09:00 (35 minutes)

Presenter: SZCZUREK, Antoni (Institute of Nuclear Physics) **Session Classification:** ttbar production