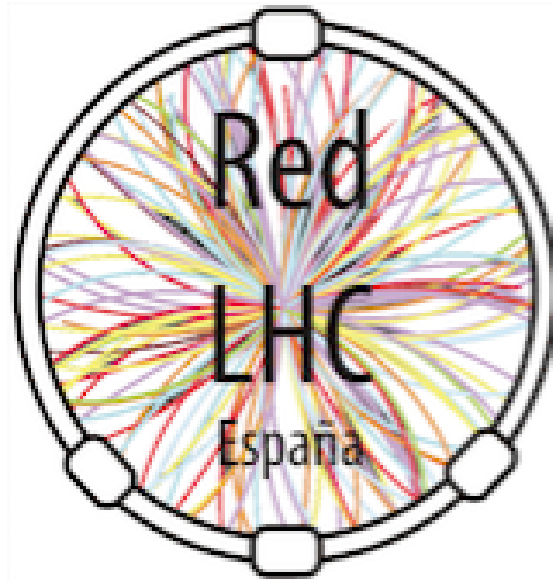


3rd RED LHC workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

IFT Seminar (IFT, red room)

Monday 6 May 2019 15:00 (1 hour)

LHC results and Electroweak fits

Presenter: KOGLER, Roman (Hamburg University (DE))

Contribution ID: 3

Type: **not specified**

Top quark pair and single production, and its interference

Monday 6 May 2019 16:30 (15 minutes)

Author: SANCHEZ CRUZ, Sergio (Universidad de Oviedo (ES))

Presenter: SANCHEZ CRUZ, Sergio (Universidad de Oviedo (ES))

Session Classification: Top

Contribution ID: 4

Type: **not specified**

Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV

Monday 6 May 2019 16:45 (15 minutes)

Author: CAMARERO MUNOZ, Daniel (Universidad Autonoma de Madrid (ES))

Presenter: CAMARERO MUNOZ, Daniel (Universidad Autonoma de Madrid (ES))

Session Classification: Top

Contribution ID: 5

Type: **not specified**

Top-quark mass measurements in $t\bar{t}$ +1jet events at the LHC

Monday 6 May 2019 17:00 (15 minutes)

Author: MELINI, Davide (Univ. of Valencia and CSIC (ES))

Presenter: MELINI, Davide (Univ. of Valencia and CSIC (ES))

Session Classification: Top

Contribution ID: 6

Type: **not specified**

Implications of the ATLAS Inner Detector alignment in the precision SM measurement

Monday 6 May 2019 17:15 (15 minutes)

Author: MARTI I GARCIA, Salvador (IFIC-Valencia (UV/EG-CSIC))

Presenter: MARTI I GARCIA, Salvador (IFIC-Valencia (UV/EG-CSIC))

Session Classification: Top

Contribution ID: 7

Type: **not specified**

Overview on Machine Learning

Tuesday 7 May 2019 10:00 (30 minutes)

Author: ZALDÍVAR MONTERO, Bryan (IFT UAM/CSIC)

Presenter: ZALDÍVAR MONTERO, Bryan (IFT UAM/CSIC)

Session Classification: Computing for HEP

Contribution ID: 8

Type: **not specified**

Application of a Convolutional Neural Network for image classification to the analysis of collisions in High Energy Physics

Tuesday 7 May 2019 10:30 (15 minutes)

Author: FERNANDEZ MADRAZO, Celia (Instituto de Física de Cantabria)

Presenter: FERNANDEZ MADRAZO, Celia (Instituto de Física de Cantabria)

Session Classification: Computing for HEP

Contribution ID: 9

Type: **not specified**

A generic anti-QCD jet tagger

Tuesday 7 May 2019 10:45 (15 minutes)

Author: AGUILAR SAAVEDRA, Juan Antonio (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

Presenter: AGUILAR SAAVEDRA, Juan Antonio (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

Session Classification: Computing for HEP

Contribution ID: **10**

Type: **not specified**

Connecting The Dots and Workshop on Intelligent Trackers

Tuesday 7 May 2019 11:30 (15 minutes)

Author: GARCIA NAVARRO, Jose Enrique (Univ. of Valencia and CSIC (ES))

Presenter: GARCIA NAVARRO, Jose Enrique (Univ. of Valencia and CSIC (ES))

Session Classification: Computing for HEP

Contribution ID: **11**

Type: **not specified**

In-situ jet calibration

Tuesday 7 May 2019 11:45 (15 minutes)

Author: APARISI POZO, Javier Alberto (Univ. of Valencia and CSIC (ES))

Presenter: APARISI POZO, Javier Alberto (Univ. of Valencia and CSIC (ES))

Session Classification: Computing for HEP

Contribution ID: 12

Type: **not specified**

Computing Challenges for HL-LHC (COMCHA)

Tuesday 7 May 2019 12:15 (15 minutes)

Author: FIORINI, Luca (Univ. of Valencia and CSIC (ES))

Presenter: FIORINI, Luca (Univ. of Valencia and CSIC (ES))

Session Classification: Computing for HEP

Contribution ID: 13

Type: **not specified**

Facing the computing challenge of HL-LHC

Tuesday 7 May 2019 12:00 (15 minutes)

Author: HERNANDEZ, Jose (CIEMAT)

Presenter: HERNANDEZ, Jose (CIEMAT)

Session Classification: Computing for HEP

Contribution ID: 14

Type: **not specified**

A 96 GeV Higgs Boson in the N2HDM

Tuesday 7 May 2019 14:30 (15 minutes)

Author: BIEKOTTER, Thomas

Presenter: BIEKOTTER, Thomas

Session Classification: Higgs

Contribution ID: 15

Type: **not specified**

The Higgs self-coupling at the LHC: can we probe it in HH production via Vector Boson Scattering?

Tuesday 7 May 2019 14:45 (15 minutes)

Author: GARCÍA GARCÍA, Claudia

Presenter: GARCÍA GARCÍA, Claudia

Session Classification: Higgs

Contribution ID: 16

Type: **not specified**

Associated production of H with a top quark pair in multileptons

Tuesday 7 May 2019 15:00 (15 minutes)

Author: ALVAREZ GONZALEZ, Barbara (Universidad de Oviedo (ES))

Presenter: ALVAREZ GONZALEZ, Barbara (Universidad de Oviedo (ES))

Session Classification: Higgs

Contribution ID: 17

Type: **not specified**

Search for magnetic monopoles using the photon fusion production mechanism at MoEDAL experiment

Tuesday 7 May 2019 15:15 (15 minutes)

Author: SANTRA, Arka (Univ. of Valencia and CSIC (ES))

Presenter: SANTRA, Arka (Univ. of Valencia and CSIC (ES))

Session Classification: Exotics and SUSY

Contribution ID: **18**

Type: **not specified**

CMS combination of diboson searches

Tuesday 7 May 2019 15:45 (15 minutes)

Author: FERNANDEZ DE TROCONIZ, Jorge (Universidad Autonoma de Madrid (ES))

Presenter: FERNANDEZ DE TROCONIZ, Jorge (Universidad Autonoma de Madrid (ES))

Session Classification: Exotics and SUSY

Contribution ID: **19**

Type: **not specified**

SUSY EWK production (multileptons) + WZ SM cross section

Tuesday 7 May 2019 16:00 (15 minutes)

Author: ERICE CID, Carlos Francisco (Universidad de Oviedo (ES))

Presenter: ERICE CID, Carlos Francisco (Universidad de Oviedo (ES))

Session Classification: Exotics and SUSY

Contribution ID: 20

Type: **not specified**

DM searches at the LHC: Full analysis for leptophobic mediators

Tuesday 7 May 2019 17:00 (15 minutes)

Author: HEINEMEYER, Sven (CSIC (Madrid, ES))

Presenter: HEINEMEYER, Sven (CSIC (Madrid, ES))

Session Classification: Dark matter

Contribution ID: 21

Type: **not specified**

Search for new physics with displaced leptons in CMS

Tuesday 7 May 2019 17:15 (15 minutes)

Author: FERNANDEZ MADRAZO, Celia (Instituto de Física de Cantabria)

Presenter: FERNANDEZ MADRAZO, Celia (Instituto de Física de Cantabria)

Session Classification: Dark matter

Contribution ID: 22

Type: **not specified**

CMS Monohiggs combination at 13 TeV

Tuesday 7 May 2019 17:30 (15 minutes)

Author: TREVISANI, Nicolo' (Universidad de Cantabria and CSIC (ES))

Presenter: TREVISANI, Nicolo' (Universidad de Cantabria and CSIC (ES))

Session Classification: Dark matter

Contribution ID: 23

Type: **not specified**

B-flavour anomalies at LHCb

Wednesday 8 May 2019 10:00 (15 minutes)

Author: CALVO GOMEZ, Miriam (University of Barcelona (ES))

Presenter: CALVO GOMEZ, Miriam (University of Barcelona (ES))

Session Classification: Flavour physics

Contribution ID: 24

Type: **not specified**

Test of LFU with charm semileptonic decays at the LHCb experiment

Wednesday 8 May 2019 10:15 (15 minutes)

Author: GIOVENTU, Alessandra (Universidade de Santiago de Compostela (ES))

Presenter: GIOVENTU, Alessandra (Universidade de Santiago de Compostela (ES))

Session Classification: Flavour physics

Contribution ID: 25

Type: **not specified**

Lepton Universality tests in semitauonic b-hadron decays at LHCb

Wednesday 8 May 2019 10:30 (15 minutes)

Author: LOMBA CASTRO, Julian (Universidade de Santiago de Compostela (ES))

Presenter: LOMBA CASTRO, Julian (Universidade de Santiago de Compostela (ES))

Session Classification: Flavour physics

Contribution ID: 26

Type: **not specified**

B Anomalies after Moriond 2019

Wednesday 8 May 2019 10:45 (15 minutes)

Author: CAPDEVILA, Bernat (IFAE)

Presenter: CAPDEVILA, Bernat (IFAE)

Session Classification: Flavour physics

Contribution ID: 27

Type: **not specified**

Global fit to $b \rightarrow c \tau \nu$ transitions

Wednesday 8 May 2019 11:00 (15 minutes)

Author: PEÑUELAS, Ana (IFIC)

Presenter: PEÑUELAS, Ana (IFIC)

Session Classification: Flavour physics

Contribution ID: **28**

Type: **not specified**

Susy 3rd generation

Tuesday 7 May 2019 16:15 (15 minutes)

Author: RODRIGO GONZÁLEZ, Xuan

Presenter: RODRIGO GONZÁLEZ, Xuan

Session Classification: Exotics and SUSY

Contribution ID: 29

Type: **not specified**

Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV

Tuesday 7 May 2019 15:30 (15 minutes)

Author: MORAN, Dermot Anthony (Centro de Investigaciones Energéticas Medioambientales y Tecnológico)

Presenter: MORAN, Dermot Anthony (Centro de Investigaciones Energéticas Medioambientales y Tecnológico)

Session Classification: Exotics and SUSY

Contribution ID: **30**

Type: **not specified**

Discussion

Monday 6 May 2019 18:00 (1h 30m)

Authors: DE OYANGUREN CAMPOS, Arantza (Univ. of Valencia and CSIC (ES)); RODRIGO, German (IFIC CSIC-UV); SANTIAGO, Jose (Universidad de Granada (ES)); VALLE, Jose

Presenters: DE OYANGUREN CAMPOS, Arantza (Univ. of Valencia and CSIC (ES)); RODRIGO, German (IFIC CSIC-UV); SANTIAGO, Jose (Universidad de Granada (ES)); VALLE, Jose

Session Classification: Perspectives on particle physics after LHC Run 2

Contribution ID: 31

Type: **not specified**

Discussion

Tuesday 7 May 2019 17:45 (1h 8m)

Authors: PIEDRA GOMEZ, Jonatan (Universidad de Cantabria and CSIC (ES)); NO REDONDO, Jose Miguel (Conseil Europeen Recherche Nucl. (CERN)-Unknown-Unknown); ROSTEN, Rachel Christine (The Barcelona Institute of Science and Technology (BIST) (ES))

Presenters: PIEDRA GOMEZ, Jonatan (Universidad de Cantabria and CSIC (ES)); NO REDONDO, Jose Miguel (Conseil Europeen Recherche Nucl. (CERN)-Unknown-Unknown); ROSTEN, Rachel Christine (The Barcelona Institute of Science and Technology (BIST) (ES))

Session Classification: Elusive signals beyond dark matter

Contribution ID: 32

Type: **not specified**

Discussion

Wednesday 8 May 2019 11:45 (1h 30m)

Authors: FUSTER VERDÚ, Juan (IFIC-Valencia (ES)); IBANEZ, Luis (Universidad Autonoma de Madrid); VOS, Marcel (IFIC Valencia (ES)); CEPEDA, Maria (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

Presenters: FUSTER VERDÚ, Juan (IFIC-Valencia (ES)); IBANEZ, Luis (Universidad Autonoma de Madrid); VOS, Marcel (IFIC Valencia (ES)); CEPEDA, Maria (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

Session Classification: Future colliders