

4th RED LHC workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

CMS: WZ inclusive/differential

Wednesday 4 November 2020 15:15 (15 minutes)

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

Session Classification: SM/top

Contribution ID: 2

Type: **not specified**

ATLAS: single top (polarization)

Wednesday 4 November 2020 15:30 (15 minutes)

Presenter: GONZALVO RODRIGUEZ, Galo Rafael (Univ. of Valencia and CSIC (ES))

Session Classification: SM/top

Contribution ID: 3

Type: **not specified**

CMS: single top (tW differential)

Wednesday 4 November 2020 15:45 (15 minutes)

Presenter: Mr RODRIGUEZ BOUZA, Victor (Universidad de Oviedo (ES))

Session Classification: SM/top

Contribution ID: 4

Type: **not specified**

ATLAS: Jet classification for reconstruction of $t\bar{t}$ resonances using ML

Presenter: LOZANO BAHILLO, Julio (Univ. of Valencia and CSIC (ES))

Session Classification: SM/top

Contribution ID: 5

Type: **not specified**

Theory: New measurements of tt spin correlations

Wednesday 4 November 2020 16:00 (15 minutes)

Presenter: MORENO, Jesus M. (CSIC)

Session Classification: SM/top

Contribution ID: 6

Type: **not specified**

CMS: WW production at 13 TeV

Wednesday 4 November 2020 16:30 (15 minutes)

Presenter: FERNANDEZ MANTECA, Pedro (Universidad de Cantabria and CSIC (ES))

Session Classification: SM/top

Contribution ID: 7

Type: **not specified**

ATLAS: alphaS

Wednesday 4 November 2020 16:45 (15 minutes)

Presenter: ALVAREZ ESTEVEZ, Manuel (Universidad Autonoma de Madrid (ES))

Session Classification: SM/top

Contribution ID: 8

Type: **not specified**

CMS: ttH multileptons

Wednesday 4 November 2020 17:45 (15 minutes)

Presenter: RAMON ALVAREZ, Clara (Universidad de Oviedo (ES))

Session Classification: Higgs

Contribution ID: 9

Type: **not specified**

ATLAS: tH multileptons

Wednesday 4 November 2020 18:00 (15 minutes)

Presenter: GUERRERO ROJAS, Jesus (IFIC-Valencia (UV/EG-CSIC))

Session Classification: Higgs

Contribution ID: **10**

Type: **not specified**

CMS: thrilling recent Higgs results

Wednesday 4 November 2020 17:30 (15 minutes)

Presenter: CEPEDA, Maria (CIEMAT)

Session Classification: Higgs

Contribution ID: **11**

Type: **not specified**

Theory: Higgs EFT

Wednesday 4 November 2020 18:30 (15 minutes)

Presenter: SANZ GONZALEZ, Veronica (University of Sussex (GB))

Session Classification: Higgs

Contribution ID: 12

Type: **not specified**

ATLAS: Search for di-Higgs production

Wednesday 4 November 2020 18:45 (15 minutes)

Presenter: RUIZ MARTINEZ, Arantxa (Univ. of Valencia and CSIC (ES))

Session Classification: Higgs

Contribution ID: 13

Type: **not specified**

CMS: HWW

Wednesday 4 November 2020 19:00 (15 minutes)

Presenters: ALVAREZ FERNANDEZ, Adrian (Centro de Investigaciones Energéticas Medioambientales y Tecnol.); PIEDRA GOMEZ, Jonatan (Universidad de Cantabria and CSIC (ES))

Session Classification: Higgs

Contribution ID: 14

Type: **not specified**

Theory: Higgs + gamma

Wednesday 4 November 2020 19:15 (15 minutes)

Presenter: NO REDONDO, Jose Miguel (Conseil Europeen Recherche Nucl. (CERN)-Unknown-Unknown)

Session Classification: Higgs

Contribution ID: 15

Type: **not specified**

CMS: stops

Thursday 5 November 2020 15:00 (15 minutes)

Presenter: TRAPOTE FERNANDEZ, Andrea (Universidad de Oviedo (ES))

Session Classification: BSM (short lived)

Contribution ID: 16

Type: **not specified**

ATLAS: New results of the $H_{\tau\tau}$ search with full Run-2 data

Thursday 5 November 2020 15:15 (15 minutes)

Presenter: SALVADOR SALAS, Adrian (The Barcelona Institute of Science and Technology (BIST) (ES))

Session Classification: BSM (short lived)

Contribution ID: 17

Type: **not specified**

LHCb: Radiative b-baryon decays at LHCb

Thursday 5 November 2020 15:30 (15 minutes)

Presenter: GARCIA MARTIN, Luis Miguel (University of Warwick (GB))

Session Classification: BSM (short lived)

Contribution ID: **18**

Type: **not specified**

Theory: Dark Matter: EFT vs UV-complete models

Thursday 5 November 2020 15:45 (15 minutes)

Presenter: DJOUADI, Abdelhak (Unite Reseaux du CNRS (FR))

Session Classification: BSM (short lived)

Contribution ID: 19

Type: **not specified**

ATLAS: Search of additional heavy Higgs bosons in the tautau final state

Thursday 5 November 2020 16:00 (15 minutes)

Presenter: BAILEY, Adam (Univ. of Valencia and CSIC (ES))

Session Classification: BSM (short lived)

Contribution ID: **20**

Type: **not specified**

Theory: jet tagging

Thursday 5 November 2020 17:15 (15 minutes)

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

Session Classification: Experimental anomalies

Contribution ID: 21

Type: **not specified**

LHCb: Stealth bosons

Thursday 5 November 2020 17:30 (15 minutes)

Presenter: VAZQUEZ SIERRA, Carlos (CERN)

Session Classification: Experimental anomalies

Contribution ID: 22

Type: **not specified**

LHCb: Lepton Flavour Universality in rare B decays

Thursday 5 November 2020 17:45 (15 minutes)

Presenter: ALVAREZ CARTELLE, Paula (University of Cambridge (GB))

Session Classification: Experimental anomalies

Contribution ID: 23

Type: **not specified**

LHCb: Lepton Universality Violation in charged currents

Thursday 5 November 2020 18:15 (15 minutes)

Presenter: VAZQUEZ GOMEZ, Ricardo (Universidade de Santiago de Compostela (ES))

Session Classification: Experimental anomalies

Contribution ID: 24

Type: **not specified**

Theory: Flavor anomalies

Thursday 5 November 2020 18:30 (15 minutes)

Presenter: PICH, Antonio (IFIC, U. Valencia -.)

Session Classification: Experimental anomalies

Contribution ID: 25

Type: **not specified**

Theory: 96 GeV excess

Thursday 5 November 2020 18:45 (15 minutes)

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

Session Classification: Experimental anomalies

Contribution ID: 27

Type: **not specified**

ATLAS: LLP with calorimeter ratio

Friday 6 November 2020 15:45 (15 minutes)

Presenter: TORRO PASTOR, Emma (Univ. of Valencia and CSIC (ES))

Session Classification: Long-lived particles

Contribution ID: 28

Type: **not specified**

CMS: long-lived particles analysis

Friday 6 November 2020 16:00 (15 minutes)

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

Session Classification: Long-lived particles

Contribution ID: 29

Type: **not specified**

Theory: LLPs from LSPs

Friday 6 November 2020 16:15 (15 minutes)

Presenter: KPATCHA, Essadjolo

Session Classification: Long-lived particles

Contribution ID: **30**

Type: **not specified**

MoEDAL: New searches

Friday 6 November 2020 16:30 (15 minutes)

Presenter: SANTRA, Arka (Weizmann Institute of Science (IL))

Session Classification: Long-lived particles

Contribution ID: **31**

Type: **not specified**

Codex-B

Friday 6 November 2020 16:45 (15 minutes)

Presenter: CID VIDAL, Xabier (Instituto Galego de Física de Altas Enerxías)

Session Classification: Long-lived particles

Contribution ID: 32

Type: **not specified**

ATLAS: computing in Run 3 and HL-LHC

Friday 6 November 2020 17:30 (15 minutes)

Presenter: Dr GONZALEZ DE LA HOZ, Santiago (Univ. of Valencia and CSIC (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 33

Type: **not specified**

LHC Network: Status and Future

Friday 6 November 2020 17:45 (10 minutes)

Presenters: GARCIA, Carmen (Univ. of Valencia and CSIC (ES)); GARCIA, Carmen (IFIC Valencia (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 34

Type: **not specified**

Plans of spanish groups for LHC Run3 and HL-LHC: discussion

Friday 6 November 2020 19:05 (15 minutes)

3' presentations of the various groups (TH, EXP) about their plans for LHC Run 3 and the HL-LHC

Presenters: GALLAS TORREIRA, Abraham Antonio (Universidade de Santiago de Compostela (ES)); OYANGUREN, Arantza (IFIC - Valencia); MARTINEZ RIVERO, Celso (CSIC - Consejo Sup. de Investig. Cientif. (ES)); MARTINEZ RIVERO, Celso (IFCA (CSIC-UC)); MARTINEZ SANTOS, Diego (Universidade de Santiago de Compostela (ES)); RODRIGO GARCIA, German; JOSA MUTUBERRIA, Isabel (Centro de Investigaciones Energéticas Medioambientales y Tecno); PALENCIA CORTEZON, Jose Enrique (Universidad de Oviedo (ES)); SANTIAGO, Jose (Granada University); HEINEMEYER, Sven (CSIC (Madrid, ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 35

Type: **not specified**

Exp. and Theory: EFT fits for tops

Wednesday 4 November 2020 16:15 (15 minutes)

Presenter: PEÑUELAS, Ana (IFIC)

Session Classification: SM/top

Contribution ID: 36

Type: **not specified**

ATLAS: Study of the Higgs boson Yukawa coupling to leptons

Wednesday 4 November 2020 19:30 (15 minutes)

Presenter: RODRIGUEZ, Sergi (Univ. of Valencia and CSIC (ES))

Session Classification: Higgs

Contribution ID: 37

Type: **not specified**

ATLAS: New results for mono-jet searches with full Run 2 data

Thursday 5 November 2020 16:15 (15 minutes)

Presenter: MUNOZ MARTINEZ, Jose Luis (The Barcelona Institute of Science and Technology (BIST) (ES))

Session Classification: BSM (short lived)

Contribution ID: **38**

Type: **not specified**

ATLAS: leptoquark searches with full Run 2 data

Thursday 5 November 2020 16:30 (15 minutes)

Presenter: KAZAKOS, Stergios (IFAE and UAB (ES))

Session Classification: BSM (short lived)

Contribution ID: 39

Type: **not specified**

LHCb: Exploring the SM frontiers with the $K_s^0 \rightarrow \mu^+\mu^-$ decay

Thursday 5 November 2020 16:45 (15 minutes)

Presenter: RAMOS PERNAS, Miguel (University of Warwick (GB))

Session Classification: BSM (short lived)

Contribution ID: 40

Type: **not specified**

CMS: Searches for LFV in Higgs decays

Thursday 5 November 2020 18:00 (15 minutes)

Presenters: URDA, Lourdes (CIEMAT (Madrid)); CEPEDA, Maria (CIEMAT)

Session Classification: Experimental anomalies

Contribution ID: 41

Type: **not specified**

Theory: An Optimal Strategy for the Experimental H/A \rightarrow $t\bar{t}$ Search

Wednesday 4 November 2020 18:15 (15 minutes)

Presenter: ALCARAZ MAESTRE, Juan (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT, Madrid))

Session Classification: Higgs

Contribution ID: 42

Type: **not specified**

IFIC ATLAS

Friday 6 November 2020 17:55 (5 minutes)

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

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 43

Type: **not specified**

IFCA CMS

Friday 6 November 2020 18:00 (5 minutes)

Presenters: MARTINEZ RIVERO, Celso (CSIC - Consejo Sup. de Investig. Cientif. (ES)); MARTINEZ RIVERO, Celso (IFCA (CSIC-UC))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 44

Type: **not specified**

IFAE ATLAS

Friday 6 November 2020 18:05 (5 minutes)

Presenter: JUSTE ROZAS, Aurelio (ICREA and IFAE (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 45

Type: **not specified**

Oviedo CMS

Friday 6 November 2020 18:10 (5 minutes)

Presenter: PALENCIA CORTEZON, Jose Enrique (Universidad de Oviedo (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 46

Type: **not specified**

Granada THEO

Friday 6 November 2020 18:15 (5 minutes)

Presenter: SANTIAGO, Jose (Granada University)

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 47

Type: **not specified**

IFIC THEO

Friday 6 November 2020 18:20 (5 minutes)

Presenters: RODRIGO, German (IFIC CSIC-UV); RODRIGO GARCIA, German

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 48

Type: **not specified**

IFAE THEO

Friday 6 November 2020 18:25 (5 minutes)

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 49

Type: **not specified**

IFT THEO

Friday 6 November 2020 18:30 (5 minutes)

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

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 50

Type: **not specified**

Ciemat CMS

Friday 6 November 2020 18:35 (5 minutes)

Presenter: JOSA MUTUBERRIA, Isabel (Centro de Investigaciones Energéticas Medioambientales y Tecnol.)

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 51

Type: **not specified**

UAM ATLAS

Friday 6 November 2020 18:40 (5 minutes)

Presenter: TERRON CUADRADO, Juan (Universidad Autonoma de Madrid (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 52

Type: **not specified**

IGFAE-Santiago 1

Friday 6 November 2020 18:50 (5 minutes)

Presenter: GALLAS TORREIRA, Abraham Antonio (Universidade de Santiago de Compostela (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 53

Type: **not specified**

IGFAE-Santiago 2

Friday 6 November 2020 18:55 (5 minutes)

Presenter: MARTINEZ SANTOS, Diego (Universidade de Santiago de Compostela (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 54

Type: **not specified**

IFIC-UV-UB-URL LHCb

Friday 6 November 2020 19:00 (5 minutes)

Presenters: DE OYANGUREN CAMPOS, Arantza (Univ. of Valencia and CSIC (ES)); OYANGUREN, Arantza (IFIC - Valencia)

Session Classification: Discussion: Roadmap LHC Physics in Spain

Contribution ID: 55

Type: **not specified**

CNM ATLAS-CMS-LHCb

Friday 6 November 2020 18:45 (5 minutes)

Presenter: ULLAN, Miguel (CNM-Barcelona (ES))

Session Classification: Discussion: Roadmap LHC Physics in Spain