

DBL/HBSM Joint Workshop Theory Session

Report of Contributions

Contribution ID: 1

Type: **not specified**

Muons (20+10)

Presenter: RETTIE, Sebastien (University of British Columbia (CA))

Contribution ID: 2

Type: **not specified**

Jet/MET (20+10)

Presenter: SCHRAMM, Steven (Universite de Geneve (CH))

Contribution ID: 3

Type: **not specified**

Flavour Tagging (20+10)

Presenter: POLLARD, Chris (University of Glasgow (GB))

Contribution ID: 4

Type: **not specified**

e/γ (20+10)

Presenters: LENZI, Bruno (CERN); MASTRANDREA, Paolo (Centre National de la Recherche Scientifique (FR))

Contribution ID: 5

Type: **not specified**

Taus (20+10)

Presenters: DAVEY, Will (University of Bonn (DE)); DAVEY, Will (Unknown)

Contribution ID: 6

Type: **not specified**

Boosted Taus (20+10)

Presenter: KIRCHMEIER, David (Technische Universitaet Dresden (DE))

Contribution ID: 7

Type: **not specified**

Trigger (30+15)

Presenters: MARTYNIUK, Alex Christopher (University College London); ZIVKOVIC, Lidija (Institute of physics Belgrade (RS))

Contribution ID: 8

Type: **not specified**

Statistics (25+20)

Presenter: BERGER, Nicolas (Centre National de la Recherche Scientifique (FR))

Contribution ID: 9

Type: **not specified**

VH Analysis Overview (15+10)

Presenter: MARTYNIUK, Alex Christopher (University College London)

Contribution ID: **10**

Type: **not specified**

XH Analysis Overview (15+10)

Presenter: IORDANIDOU, Kalliopi (Columbia University (US))

Contribution ID: 11

Type: **not specified**

Future prospects (20+20)

Presenters: CAMACHO TORO, Reina Coromoto (University of Chicago (US)); SCHRAMM, Steven (Universite de Geneve (CH)); SCHAARSCHMIDT, Jana (University of Washington (US))

Contribution ID: **12**

Type: **not specified**

General Search

Presenter: ALDERWEIRELDT, Sara (Nikhef National institute for subatomic physics (NL))

Contribution ID: 13

Type: **not specified**

h→invisible searches in VBF and Z(ℓ)h topologies (15'+10')

Presenters: TROVATELLI, Monica (University of Victoria (CA)); BALUNAS, William (University of Pennsylvania (US))

Contribution ID: 14

Type: **not specified**

V(qq)h, h→invisible search and h(bb) + MET search for DM (15'+10')

Presenters: RIECK, Patrick (Max-Planck-Institut für Physik (DE)); FABIANI, Veronica (Nikhef National institute for subatomic physics (NL))

Contribution ID: 15

Type: **not specified**

$h(\gamma\gamma) + \text{MET}$ search for DM, $h + \text{MET}$ combo, $h \rightarrow \text{invisible}$ combo (13'+7')

Presenters: ZHOU, Chen (D); ZHOU, Chen (University of Wisconsin Madison (US)); WANG, Renjie (LPNHE-Paris, CNRS/IN2P3 (FR)); WANG, Renjie (LPNHE-Paris CNRS/IN2P3 (FR))

Contribution ID: **16**

Type: **not specified**

Report from the LHC DM WG, ATLAS DM summary paper (13'+7')

Presenter: CORTES GONZALEZ, Arely (CERN)

Contribution ID: 17

Type: **not specified**

Rare decays ($15' + 15'$)

Presenter: OWEN, Rhys Edward (University of Birmingham (GB))

Contribution ID: **18**

Type: **not specified**

LFV Higgs ($15' + 15'$)

Presenter: ITURBE, Julia (The Chinese University of Hong Kong (HK))

Contribution ID: **19**

Type: **not specified**

FCNC $t \rightarrow qH$ ($15' + 15'$)

Presenter: ORLANDO, Nicola (University of Hong Kong (HK))

Contribution ID: 20

Type: **not specified**

Introduction

Presenter: BEACHAM, James (Ohio State University (US))

Contribution ID: **21**

Type: **not specified**

$$\mathbf{h \rightarrow 2a \rightarrow 4b / h \rightarrow 2a \rightarrow 2b2\tau}$$

Presenter: CAMINAL ARMADANS, Roger (University of Massachusetts (US))

Contribution ID: 22

Type: **not specified**

$h \rightarrow 2a \rightarrow 2b2\mu / h \rightarrow bb+ET_{\text{miss}}$

Presenter: MORVAJ, Ljiljana (Stony brook Universty (US))

Contribution ID: 23

Type: **not specified**

$$h \rightarrow 2a \rightarrow 4\mu \text{ / } h \rightarrow 2a \rightarrow 2\mu 2\tau \text{ / } h \rightarrow 2a \rightarrow 4\tau$$

Presenter: CAI, Huacheng (Univ. Illinois at Urbana Champaign (US))

Contribution ID: 24

Type: **not specified**

$$h \rightarrow 2a \rightarrow 2j2\gamma / h \rightarrow 2a \rightarrow 4\gamma$$

Presenter: CUKIERMAN, Aviv Ruben (SLAC National Accelerator Laboratory (US))

Contribution ID: 25

Type: **not specified**

Introduction and Overview of the diboson searches

Presenter: ZHANG, Zhiqing Philippe (LAL, Orsay (FR))

Contribution ID: 26

Type: **not specified**

Overview of the WW,ZZ,WZ searches

Presenter: DENYSIUK, Denys (Université Paris-Saclay (FR))

Contribution ID: 27

Type: **not specified**

Overview of the $\gamma\gamma$ searches

Presenter: VALLIER, Alexis (Centre National de la Recherche Scientifique (FR))

Contribution ID: 28

Type: **not specified**

hh -> 4b current status and plans for Run2

Presenter: SCHAARSCHMIDT, Jana (University of Washington (US))

Contribution ID: 29

Type: **not specified**

bbyy, WWyy current status and plans fro Run2

Presenters: BROST, Elizabeth (Northern Illinois University (US)); YAQUAN, Fang

Contribution ID: 30

Type: **not specified**

bb tau tau current status and plans for Run2

Presenter: BETHANI, Agni (University of Manchester (GB))

Contribution ID: **31**

Type: **not specified**

WWbb and WWW status and plans for Run2

Presenter: SHRESTHA, Suyog (Ohio State University (US))

Contribution ID: 32

Type: **not specified**

Discussion: hh plans for Run2

Presenter: FERRARI, Arnaud (Uppsala University (SE))

Contribution ID: 33

Type: **not specified**

H $\rightarrow$ $\tau\tau$ (15' + 15')

Presenter: ZHANG, Lei (Albert Ludwigs Universitaet Freiburg (DE))

Contribution ID: 34

Type: **not specified**

H $\rightarrow$ $\mu\mu$ & H $\rightarrow$ $b\bar{b}$ (15' + 15')

Presenter: MCNICOL, Christopher John (University of Warwick (GB))

Contribution ID: 35

Type: **not specified**

H $\rightarrow$ $t\bar{t}$ (15' + 15')

Presenter: FERREIRA DE LIMA, Danilo Enoque (Ruprecht Karls Universitaet Heidelberg (DE))

Contribution ID: 36

Type: **not specified**

S+Heavy Flavor & Same-Sign dilepton + b (15'+15')

Presenter: FAROOQUE, Trisha (University of Toronto (CA))

Contribution ID: 37

Type: **not specified**

Introduction

Presenters: LORENZ, Jeanette Miriam (Ludwig Maximilians Universitat (DE)); CAVALIERE, Viviana (Brookhaven National Lab)

Contribution ID: **38**

Type: **not specified**

Overview of HBSM combination

Presenter: HAMITY, Guillermo Nicolas (University of Sheffield (GB))

Contribution ID: 39

Type: **not specified**

Overview of di-Higgs combination

Presenter: ENGLERT, David (Queen Mary University of London)

Contribution ID: 40

Type: **not specified**

Overview of exotic combination

Presenter: HALLADJIAN, Garabed (Michigan State University (US))

Contribution ID: 41

Type: **not specified**

Overview of Monte Carlo Tools

Presenter: VRYONIDOU, Eleni (CERN)

Session Classification: Theory

Contribution ID: 42

Type: **not specified**

BSM Higgs and CP violation

Presenter: SERRA RIBEIRO DOS SANTOS, Rui Alberto (ISEL Instituto Superior de Engenharia (PT))

Session Classification: Theory

Contribution ID: 43

Type: **not specified**

Overview of BSM phenomenology: More exotic models

Presenter: WULZER, Andrea (CERN)

Session Classification: Theory

Contribution ID: 44

Type: **not specified**

Overview of BSM phenomenology: CP-conserving models

Presenter: MAHMOUDI, Nazila (CERN and Lyon University (FR))

Session Classification: Theory

Contribution ID: 45

Type: **not specified**

Overview of Monte Carlo Tools

Monday 13 November 2017 15:30 (30 minutes)

Presenter: VRYONIDOU, Eleni (CERN)

Contribution ID: 46

Type: **not specified**

Overview of BSM phenomenology: CP-conserving models

Monday 13 November 2017 16:15 (30 minutes)

Presenter: MAHMOUDI, Nazila (CERN and Lyon University (FR))

Contribution ID: 47

Type: **not specified**

BSM Higgs and CP violation

Monday 13 November 2017 17:00 (30 minutes)

Presenter: SERRA RIBEIRO DOS SANTOS, Rui Alberto (ISEL Instituto Superior de Engenharia (PT))

Contribution ID: 48

Type: **not specified**

Overview of BSM phenomenology: More exotic models

Monday 13 November 2017 17:45 (30 minutes)

Presenter: WULZER, Andrea (CERN)