BOOST2013 - 5th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches

Report of Contributions

BOOST2013 - 5t $\ \cdots \ /$ Report of Contributions

Welcome

Contribution ID: 0

Type: not specified

Welcome

Monday, 12 August 2013 09:05 (10 minutes)

Presenter: LOCH, Peter (University of Arizona (US))

Session Classification: Introduction and overviews

Status of the BOOST2012 report

Contribution ID: 1

Type: not specified

Status of the BOOST2012 report

Monday, 12 August 2013 09:15 (40 minutes)

Presenter: Dr VOS, Marcel (IFIC Valencia (ES))

Session Classification: Introduction and overviews

Recent results from LHC

Contribution ID: 2

Type: not specified

Recent results from LHC

Monday, 12 August 2013 09:55 (35 minutes)

Presenter: Prof. SINERVO, Pekka (University of Toronto (CA)) **Session Classification:** Introduction and overviews

Jets at LHC in the presence of 2011 ···

Contribution ID: 3

Type: not specified

Jets at LHC in the presence of 2011 and 2012 pile-up

Monday, 12 August 2013 11:00 (30 minutes)

Presenter: RAPPOCCIO, Salvatore (State University of New York (US)) **Session Classification:** Introduction and overviews

Theoretical progress in disecting j …

Contribution ID: 4

Type: not specified

Theoretical progress in disecting jets: calculations past, present, and future

Monday, 12 August 2013 11:30 (30 minutes)

Presenter: THALER, Jesse

Session Classification: Introduction and overviews

Jets under HL-LHC conditions

Contribution ID: 5

Type: not specified

Jets under HL-LHC conditions

Monday, 12 August 2013 12:00 (30 minutes)

Presenter: SCHWARTZMAN, Ariel Gustavo (SLAC National Accelerator Laboratory (US)) **Session Classification:** Introduction and overviews BOOST2013 - 5t $\ \cdots \ /$ Report of Contributions

Registration

Contribution ID: 6

Type: not specified

Registration

Presenters: POTTER, Connie (CERN); KNIGHT, Vivian (University of Arizona (US))

Reception

Contribution ID: 7

Type: not specified

Reception

ttbar and t+b resonances in CMS

Contribution ID: 8

Type: not specified

ttbar and t+b resonances in CMS

Wednesday, 14 August 2013 09:00 (30 minutes)

Presenter: KOGLER, Roman (Hamburg University (DE)) **Session Classification:** Searches with boosted reconstruction techniques

Studies with boosted top quarks i \cdots

Contribution ID: 9

Type: not specified

Studies with boosted top quarks in ATLAS

Wednesday, 14 August 2013 09:30 (30 minutes)

Presenter: VALERY, Loic (Univ. Blaise Pascal Clermont-Fe. II (FR)) **Session Classification:** Searches with boosted reconstruction techniques

SUSY in boosted topologies in CMS

Contribution ID: 10

Type: not specified

SUSY in boosted topologies in CMS

Presenter: HARE, Daryl (Rutgers University)

Application of substructure in the …

Contribution ID: 11

Type: not specified

Application of substructure in the ATLAS SUSY multi-jet analysis

Wednesday, 14 August 2013 11:00 (30 minutes)

Presenter: YOUNG, Christopher (CERN)

Session Classification: Searches with boosted reconstruction techniques

Non-SUSY quark partners in boo ...

Contribution ID: 12

Type: not specified

Non-SUSY quark partners in boosted technologies in CMS

Wednesday, 14 August 2013 10:00 (30 minutes)

Presenter: HOING, Rebekka (Hamburg University (DE))

Session Classification: Searches with boosted reconstruction techniques

H->bb and H->VV in boosted top \cdots

Contribution ID: 14

Type: not specified

H->bb and H->VV in boosted topologies in CMS

Thursday, 15 August 2013 11:00 (30 minutes)

Presenter: TRAN, Nhan Viet (Fermi National Accelerator Lab. (US)) **Session Classification:** Jet substructure measurements

Boosted jet algorithm developme ...

Contribution ID: 15

Type: not specified

Boosted jet algorithm development in CMS

Thursday, 15 August 2013 14:00 (30 minutes)

Presenter: USAI, Emanuele (Hamburg University (DE)) **Session Classification:** Jet substructure performance

Substructure performance on boo ...

Contribution ID: 16

Type: not specified

Substructure performance on boosted objects in ATLAS

Thursday, 15 August 2013 14:30 (30 minutes)

Presenter: POLLARD, Chris (Duke University (US))

Session Classification: Jet substructure performance

b-jet identification in boosted tec $\,\cdots\,$

Contribution ID: 17

Type: not specified

b-jet identification in boosted technologies in CMS

Thursday, 15 August 2013 15:00 (30 minutes)

Presenter: MARCHESINI, Ivan (Hamburg University (DE)) **Session Classification:** Jet substructure performance

Jet tagging at ATLAS

Contribution ID: 18

Type: not specified

Jet tagging at ATLAS

Thursday, 15 August 2013 15:30 (30 minutes)

Presenter: HOLLOWAY, Ayana (Duke University (US)) **Session Classification:** Jet substructure performance

Boosted vector bosons in ATLAS

Contribution ID: 19

Type: not specified

Boosted vector bosons in ATLAS

Presenter: DE LORENZI, Francesco (Iowa State University (US))

Non-Higgs X->VV in boosted tec \cdots

Contribution ID: 20

Type: not specified

Non-Higgs X->VV in boosted technologies in CMS

Thursday, 15 August 2013 11:30 (30 minutes)

Presenter: MAKSIMOVIC, Petar (Johns Hopkins University (US)) **Session Classification:** Jet substructure measurements

Pileup: impact and mitigation for ···

Contribution ID: 21

Type: not specified

Pileup: impact and mitigation for jet pT and substructure in ATLAS

Tuesday, 13 August 2013 14:00 (30 minutes)

Presenter: MENKE, Sven (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut) (D) **Session Classification:** Jet substructure performance

Substructure and pileup develop \cdots

Contribution ID: 22

Type: not specified

Substructure and pileup developments in CMS

Tuesday, 13 August 2013 14:30 (30 minutes)

Presenter: HARRIS, Philip Coleman (CERN)

Session Classification: Jet substructure performance

Exploration of new substructure t \cdots

Contribution ID: 23

Type: not specified

Exploration of new substructure techniques in ATLAS

Tuesday, 13 August 2013 15:00 (30 minutes)

Presenter: SWIATLOWSKI, Maximilian J (SLAC National Accelerator Laboratory (US)) **Session Classification:** Jet substructure performance

Studies of substructure and boost ...

Contribution ID: 24

Type: not specified

Studies of substructure and boosted objects post-LS1 (Snowmass)

Tuesday, 13 August 2013 15:30 (30 minutes)

Presenter: DOLEN, James William (State University of New York (US)) **Session Classification:** Jet substructure performance BOOST2013 - 5t \cdots / Report of Contributions

RIVET tutorial

Contribution ID: 25

Type: not specified

RIVET tutorial

Wednesday, 14 August 2013 16:30 (45 minutes)

Presenter: BUCKLEY, Andy (University of Edinburgh (GB)) **Session Classification:** Tutorials and demonstrations BOOST2013 - 5t $\ \cdots \ /$ Report of Contributions

Fastjet_contrib demonstration

Contribution ID: 26

Type: not specified

Fastjet_contrib demonstration

Tuesday, 13 August 2013 16:30 (45 minutes)

Presenter: SALAM, Gavin (CERN)

Session Classification: Tutorials and demonstrations

Boosted HH->bb bb: a new topol ···

Contribution ID: 27

Type: not specified

Boosted HH->bb bb: a new topology in searches for TeV scale resonances at the LHC

Wednesday, 14 August 2013 11:30 (30 minutes)

Presenter: COOPER, Ben (University of London (GB))

Session Classification: Searches with boosted reconstruction techniques

Applying computer vision techni ····

Contribution ID: 28

Type: not specified

Applying computer vision techniques to jet flavor identification: from FisherFaces to FisherJets

Thursday, 15 August 2013 09:00 (30 minutes)

Presenter: COGAN, Josh (SLAC National Accelerator Laboratory (US)) **Session Classification:** New approaches and developments

Jet cleansing: pile-up mitigation a ····

Contribution ID: 29

Type: not specified

Jet cleansing: pile-up mitigation at high luminosity

Monday, 12 August 2013 16:30 (30 minutes)

Presenter: LOW, Matthew (University of Chicago (US))

Session Classification: New approaches and developments

Telescoping jets: multiple event i ...

Contribution ID: 30

Type: not specified

Telescoping jets: multiple event interpretations with multiple R

Thursday, 15 August 2013 09:30 (30 minutes)

Presenter: CHIEN, Yang-Ting (Harvard University)

Session Classification: New approaches and developments

Jet substructure by accident

Contribution ID: 31

Type: not specified

Jet substructure by accident

Tuesday, 13 August 2013 09:00 (30 minutes)

Presenter: LOU, Hou Keong (Princeton University)

Session Classification: Jet substructure phenomenology

Recent developments in boosted j ...

Contribution ID: 32

Type: not specified

Recent developments in boosted jet tagging with template overlap methods

Tuesday, 13 August 2013 12:00 (30 minutes)

Presenter:BACKOVIC, Mihailo (Weizmann Institute of Science)Session Classification:Jet substructure phenomenology

A top tagger based on shower de ...

Contribution ID: 33

Type: not specified

A top tagger based on shower deconstruction

Tuesday, 13 August 2013 09:30 (30 minutes)

Presenter: Prof. SOPER, Davison (University of Oregon) **Session Classification:** Jet substructure phenomenology

Semi-classical approach to jet clu ···

Contribution ID: 34

Type: not specified

Semi-classical approach to jet clustering and background subtraction

Tuesday, 13 August 2013 11:00 (30 minutes)

Presenter: TSENG, Jeffrey (University of Oxford (GB)) **Session Classification:** Jet substructure phenomenology

Energy correlation functions in jet ···

Contribution ID: 35

Type: not specified

Energy correlation functions in jet substructure

Tuesday, 13 August 2013 11:30 (30 minutes)

Presenter: LARKOSKI, Andrew (SLAC)

Session Classification: Jet substructure phenomenology

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Workshop summary: theory

Contribution ID: 36

Type: not specified

Workshop summary: theory

Friday, 16 August 2013 09:00 (45 minutes)

Presenter: SCHWARTZ, Matthew (Harvard University) **Session Classification:** Summary BOOST2013 - 5t ··· / Report of Contributions

Workshop summary: experiment

Contribution ID: 37

Type: not specified

Workshop summary: experiment

Friday, 16 August 2013 09:45 (45 minutes)

Presenter: MILLER, David (University of Chicago (US)) **Session Classification:** Summary

Learning how to count: a high m ...

Contribution ID: 38

Type: not specified

Learning how to count: a high multiplicity search for the LHC

Tuesday, 13 August 2013 10:00 (30 minutes)

Presenter: EL HEDRI, sonia (SLAC)

Session Classification: Jet substructure phenomenology

Towards the understanding of jet ···

Contribution ID: 39

Type: not specified

Towards the understanding of jet substructure

Monday, 12 August 2013 14:00 (30 minutes)

Presenter: SALAM, Gavin (CERN)

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Jet substructure with analytical m ...

Contribution ID: 40

Type: not specified

Jet substructure with analytical methods

Monday, 12 August 2013 14:30 (30 minutes)

Presenter: MARZANI, Simone (IPPP / Durham University) **Session Classification:** Jet substructure theory

Exclusive jet mass observables an ...

Contribution ID: 41

Type: not specified

Exclusive jet mass observables and non-global logarithms

Monday, 12 August 2013 15:00 (30 minutes)

Presenter:SCHABINGER, Robert (Johannes Gutenberg Universitaet, Mainz)**Session Classification:**Jet substructure theory

Unsafe but calculable: ratio obser ····

Contribution ID: 42

Type: not specified

Unsafe but calculable: ratio observables in perturbative QCD

Wednesday, 14 August 2013 15:00 (30 minutes)

Presenter: THALER, Jesse

Calculating track-based observab ...

Contribution ID: 43

Type: not specified

Calculating track-based observables for the LHC

Wednesday, 14 August 2013 14:00 (30 minutes)

Presenter: WAALEWIJN, Wouter (UCSD)

Scale-invariant resonance tagging ···

Contribution ID: 44

Type: not specified

Scale-invariant resonance tagging in multi-jet events and new physics in Higgs pair production

Wednesday, 14 August 2013 15:30 (30 minutes)

Presenters: SALAM, Gavin (CERN); ROJO CHACON, Juan (CERN) **Session Classification:** Jet substructure theory

Jets without jets

Contribution ID: 45

Type: not specified

Jets without jets

Monday, 12 August 2013 16:00 (30 minutes)

Presenter: BERTOLINI, Daniele (Massachusetts Institute of Technology) **Session Classification:** New approaches and developments

Divorcing soft substructure from · · ·

Contribution ID: 46

Type: not specified

Divorcing soft substructure from kinematics

Wednesday, 14 August 2013 14:30 (30 minutes)

Presenter: CURTIN, David (Cornell)

Jet radiation radius and pileup

Contribution ID: 47

Type: not specified

Jet radiation radius and pileup

Thursday, 15 August 2013 10:00 (30 minutes)

Presenter: HAN, Zhenyu (Harvard University)

Session Classification: New approaches and developments

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Registration

Contribution ID: 48

Type: not specified

Registration

Presenters: POTTER, Connie (CERN); KNIGHT, Vivian (University of Arizona (US))

Welcome from the University of \cdots

Contribution ID: 49

Type: not specified

Welcome from the University of Arizona Physics Department

Monday, 12 August 2013 09:00 (5 minutes)

Presenter: JOHNS, Kenneth (University of Arizona (US)) **Session Classification:** Introduction and overviews

Workshop photo

Contribution ID: 50

Type: not specified

Workshop photo

Wednesday, 14 August 2013 12:15 (15 minutes)