

RADCOR 2013

Report of Contributions

Contribution ID : 2

Type : **not specified**

New results for Higgs+jet at NNLO

Monday, 23 September 2013 09:00 (30)

Summary

Presenter(s) : PETRIELLO, Frank

Session Classification : NNLO

Contribution ID : 3

Type : **not specified**

NNLO QCD corrections to dijet production at hadron colliders

Monday, 23 September 2013 09:30 (30)

Summary

Presenter(s) : PIRES, Joao

Session Classification : NNLO

Contribution ID : 4

Type : **not specified**

NNLO corrections to $B \rightarrow s \gamma$: Q7-Q1,2 contribution and other improvements

Summary

Contribution ID : 5

Type : **not specified**

Higgs boson pair production at the LHC: top quark mass effects at NLO

Monday, 23 September 2013 10:00 (30)

Summary

Presenter(s) : STEINHAUSER, Matthias

Session Classification : NNLO

Contribution ID : 6

Type : **not specified**

Towards two-loop QCD corrections to ZZ and WW production at LHC

Monday, 23 September 2013 10:30 (30)

Summary

Presenter(s) : TANCREDI, Lorenzo

Session Classification : NNLO

Contribution ID : 7

Type : **not specified**

Multiloop integrals in dimensional regularization made simple

Monday, 23 September 2013 12:30 (30)

Summary

Presenter(s) : HENN, Johannes

Session Classification : Tools

Contribution ID : 9

Type : **not specified**

Compactifying formulas with FORM

Monday, 23 September 2013 11:30 (30)

Summary

Presenter(s) : VERMASEREN, Jozef

Session Classification : Tools

Contribution ID : **10**

Type : **not specified**

Recent results from GENEVA

Monday, 23 September 2013 12:00 (30)

Summary

Presenter(s) : BAUER, Christian

Session Classification : Tools

Contribution ID : 11

Type : **not specified**

Dyck Words and Multi-Quark Amplitudes

Monday, 23 September 2013 15:00 (30)

Summary

Presenter(s) : MELIA, Tom

Session Classification : NLO

Contribution ID : 12

Type : **not specified**

Helicity amplitudes for high-energy scattering processes

Monday, 23 September 2013 14:30 (30)

Summary

Presenter(s) : VAN HAMEREN, Andreas

Session Classification : NLO

Contribution ID : 13

Type : **not specified**

EW and QCD One-Loop Amplitudes with RECOLA

Monday, 23 September 2013 15:30 (30)

Summary

Presenter(s) : UCCIRATI, Sandro

Session Classification : NLO

Contribution ID : 14

Type : **not specified**

Interfacing GoSam with Monte Carlo event generators

Summary

Presenter(s) : LUISONI, Gionata

Contribution ID : 15

Type : **not specified**

Bs -> mu⁺ mu⁻ in the SM and B -> Xs gamma in the 2HDM at NNLO in QCD

Monday, 23 September 2013 14:30 (30)

Summary

Presenter(s) : HERMANN, Thomas

Session Classification : NNLO

Contribution ID : 16

Type : **not specified**

Progress towards vector boson pair production at NNLO

Monday, 23 September 2013 15:00 (30)

Summary

Presenter(s) : RATHLEV, Dirk

Session Classification : NNLO

Contribution ID : 17

Type : **not specified**

Colourful antenna subtraction

Monday, 23 September 2013 15:30 (30)

Summary

Presenter(s) : CURRIE, James

Session Classification : NNLO

Contribution ID : 18

Type : **not specified**

Interfacing GoSam with Monte Carlo event generators

Monday, 23 September 2013 16:30 (30)

Summary

Presenter(s) : LUISONI, Gionata

Session Classification : NLO

Contribution ID : **19**

Type : **not specified**

Diphoton + jet at NLO

Monday, 23 September 2013 17:00 (30)

Summary

Presenter(s) : GREINER, Nicolas

Session Classification : NLO

Contribution ID : 20

Type : **not specified**

NLO QCD corrections to Higgs plus jets production at LHC

Summary

Presenter(s) : VAN DEURZEN, Hans

Contribution ID : 21

Type : **not specified**

On The Determination Of Integral Bases For Virtual Corrections In Quantum Field Theory

Thursday, 26 September 2013 12:30 (30)

Summary

Presenter(s) : SCHABINGER, Robert

Session Classification : Top

Contribution ID : 22

Type : **not specified**

Top quark pairs at two loops, multiple polylogarithms and Reduze2

Monday, 23 September 2013 17:00 (30)

Summary

Presenter(s) : VON MANTEUFFEL, Andreas

Session Classification : Tools

Contribution ID : 23

Type : **not specified**

Multiloop Integrand Reduction via Multivariate Polynomial Division

Monday, 23 September 2013 17:30 (30)

Summary

Presenter(s) : PERARO, Tiziano

Session Classification : Tools

Contribution ID : 24

Type : **not specified**

NLO diphoton+2-jet production at the LHC

Monday, 23 September 2013 17:30 (30)

Summary

Presenter(s) : LO PRESTI, Nicola Adriano

Session Classification : NLO

Contribution ID : 25

Type : **not specified**

Event by event weighting at NLO

Tuesday, 24 September 2013 09:00 (30)

Summary

Presenter(s) : WILLIAMS, Ciaran

Session Classification : NLO

Contribution ID : 26

Type : **not specified**

GoSam @ LHC: algorithms and applications to Higgs production

Tuesday, 24 September 2013 09:30 (30)

Summary

Presenter(s) : MASTROLIA, Pierpaolo

Session Classification : NLO

Contribution ID : 27

Type : **not specified**

Universality in W+Jet production

Tuesday, 24 September 2013 10:00 (30)

Summary

Presenter(s) : KOSOWER, David

Session Classification : NLO

Contribution ID : 28

Type : **not specified**

Weak Corrections to Gauge-boson pair production at the LHC and their implementation into generators

Tuesday, 24 September 2013 11:30 (30)

Summary

Presenter(s) : KUEHN, Johann

Session Classification : NLO

Contribution ID : 29

Type : **not specified**

O(α^* alphas) corrections to Drell-Yan processes in the resonance region

Tuesday, 24 September 2013 12:00 (30)

Summary

Presenter(s) : DITTMAIER, Stefan

Session Classification : NLO

Contribution ID : 30

Type : **not specified**

Electroweak corrections to Z + 2 jets production at the LHC

Tuesday, 24 September 2013 12:30 (30)

Summary

Presenter(s) : DENNER, Ansgar

Session Classification : NLO

Contribution ID : 31

Type : **not specified**

Higgs precision physics: the next step

Wednesday, 25 September 2013 09:00 (30)

Summary

Presenter(s) : PASSARINO, Giampiero

Session Classification : Higgs and resummation

Contribution ID : 32

Type : **not specified**

Bounding the Higgs width using interferometry

Wednesday, 25 September 2013 09:30 (30)

Summary

Presenter(s) : DIXON, Lance

Session Classification : Higgs and resummation

Contribution ID : 33

Type : **not specified**

Resummed predictions for the jet-veto Higgs cross section

Wednesday, 25 September 2013 10:00 (30)

Summary

Presenter(s) : NEUBERT, Matthias

Session Classification : Higgs and resummation

Contribution ID : 34

Type : **not specified**

High Energy Jets and Next-to-leading Order

Summary

Presenter(s) : ANDERSEN, Jeppe

Contribution ID : 35

Type : **not specified**

A fresh look at (non)renormalizable QFTs

Thursday, 26 September 2013 09:00 (30)

Summary

Presenter(s) : PITTAU, Roberto

Session Classification : Multiloop

Contribution ID : 36

Type : **not specified**

The number theory of radiative corrections

Thursday, 26 September 2013 09:30 (30)

Summary

Presenter(s) : BROADHURST, David

Session Classification : Multiloop

Contribution ID : 37

Type : **not specified**

New 3-loop Wilson coefficients for deep-Inelastic heavy flavor production

Thursday, 26 September 2013 10:00 (30)

Summary

Presenter(s) : DE FREITAS, Abilio

Session Classification : Multiloop

Contribution ID : 38

Type : **not specified**

Towards QCD running in 5 loops: quark mass anomalous dimension

Thursday, 26 September 2013 10:30 (30)

Summary

Presenter(s) : CHETYRKIN, Konstantin

Session Classification : Multiloop

Contribution ID : 39

Type : **not specified**

Fixed order total cross section results for heavy quark pair production

Thursday, 26 September 2013 11:30 (30)

Summary

Presenter(s) : CZAKON, Michael

Session Classification : Top

Contribution ID : 41

Type : **not specified**

Threshold production of unstable top

Thursday, 26 September 2013 12:00 (30)

Summary

Presenter(s) : PENIN, Alexander

Session Classification : Top

Contribution ID : 42

Type : **not specified**

High energy jets and NLO

Friday, 27 September 2013 09:00 (30)

Summary

Presenter(s) : ANDERSEN, Jeppe

Session Classification : Multiloop

Contribution ID : 43

Type : **not specified**

Perturbative calculations for jet substructure

Friday, 27 September 2013 09:30 (30)

Summary

Presenter(s) : MARZANI, Simone

Session Classification : Multiloop

Contribution ID : 44

Type : **not specified**

Jet broadening

Friday, 27 September 2013 10:00 (30)

Summary

Presenter(s) : BELL, Guido

Session Classification : Multiloop

Contribution ID : 45

Type : **not specified**

PDFs for the LHC

Friday, 27 September 2013 10:30 (30)

Summary

Presenter(s) : HUSTON, Joey

Session Classification : Multiloop

Contribution ID : 46

Type : **not specified**

Comparisons of predictions from exact amplitude-based resummation methods with LHC and cosmological data

Friday, 27 September 2013 11:30 (30)

Summary

Presenter(s) : WARD, Bennie

Session Classification : Higgs and resummation

Contribution ID : 47

Type : **not specified**

Progress on soft gluon exponentiation and long-distance singularities

Friday, 27 September 2013 12:00 (30)

Summary

Presenter(s) : GARDI, Einan

Session Classification : Higgs and resummation

Contribution ID : 48

Type : **not specified**

Beyond Reggeization for two- and three-loop QCD amplitudes

Friday, 27 September 2013 12:30 (30)

Summary

Presenter(s) : MAGNEA, Lorenzo

Session Classification : Higgs and resummation

Contribution ID : 50

Type : **not specified**

Status of OpenLoops and simulation of H -> WW backgrounds

Tuesday, 24 September 2013 15:30 (30)

Summary

Presenter(s) : MAIERHÖFER, Philipp

Session Classification : NLO

Contribution ID : 51

Type : **not specified**

Multi-boson production through gluon-gluon fusion at hadron colliders

Tuesday, 24 September 2013 14:30 (30)

Summary

Presenter(s) : AGRAWAL, Pankaj

Session Classification : NLO

Contribution ID : 52

Type : **not specified**

Dipole subtraction with random polarisations

Tuesday, 24 September 2013 15:00 (30)

Summary

Presenter(s) : GOETZ, Daniel

Session Classification : NLO

Contribution ID : 53

Type : **not specified**

NLO mass effects in bbbb production at the LHC

Thursday, 26 September 2013 15:30 (30)

Summary

Presenter(s) : WOREK, Malgorzata

Session Classification : NLO

Contribution ID : 55

Type : **not specified**

Two-loop computations with SecDec 2.1 and their application to MSSM Higgs masses

Tuesday, 24 September 2013 14:30 (30)

Summary

Presenter(s) : BOROWKA, Sophia

Session Classification : Tools

Contribution ID : 56

Type : **not specified**

Replacing 1-loop tensor reduction by contractions

Tuesday, 24 September 2013 15:00 (30)

Summary

Presenter(s) : RIEMANN, Tord

Session Classification : Tools

Contribution ID : 57

Type : **not specified**

An alternative subtraction scheme for NLO QCD calculations using Nagy-Soper dipoles

Tuesday, 24 September 2013 15:30 (30)

Summary

Presenter(s) : ROBENS, Tania

Session Classification : Tools

Contribution ID : 59

Type : **not specified**

Transverse Parton Distribution Functions at NNLO

Monday, 23 September 2013 16:30 (30)

Summary

Presenter(s) : LÜBBERT, Thomas

Session Classification : Tools

Contribution ID : 61

Type : **not specified**

Tri-vector boson production at NLO with parton shower

Tuesday, 24 September 2013 16:30 (30)

Summary

Presenter(s) : VAJRAVELU, Ravindran

Session Classification : NLO

Contribution ID : 62

Type : **not specified**

Diphoton production in the ADD model to NLO+parton shower accuracy at the LHC

Tuesday, 24 September 2013 17:00 (30)

Summary

Presenter(s) : MATHEWS, Prakash

Session Classification : NLO

Contribution ID : 63

Type : **not specified**

Off-shell top-pair production at NLO QCD with massive bottoms

Tuesday, 24 September 2013 17:30 (30)

Summary

Presenter(s) : KALLWEIT, Stefan

Session Classification : NLO

Contribution ID : 64

Type : **not specified**

Threshold corrections to inclusive jet production at hadron colliders

Tuesday, 24 September 2013 17:30 (30)

Summary

Presenter(s) : MEDURI, Chakravartula

Session Classification : Higgs and resummation

Contribution ID : 65

Type : **not specified**

Soft Gluon Effects in Four Parton Hard-Scattering Processes

Tuesday, 24 September 2013 16:30 (30)

Summary

Presenter(s) : TORRE, Alessandro

Session Classification : Higgs and resummation

Contribution ID : 66

Type : **not specified**

Higher-order soft and Coulomb corrections to squark and gluino production at the LHC

Tuesday, 24 September 2013 17:00 (30)

Summary

Presenter(s) : SCHWINN, Christian

Session Classification : Higgs and resummation

Contribution ID : 67

Type : **not specified**

NLO QCD corrections to WWbb production with leptonic decays in the light of top quark asymmetries

Thursday, 26 September 2013 14:30 (30)

Summary

Presenter(s) : SCHLENK, Johannes

Session Classification : NLO

Contribution ID : 68

Type : **not specified**

NLO EW corrections to $pp \rightarrow WW \rightarrow 4f$ in double-pole approximation at the LHC

Thursday, 26 September 2013 15:00 (30)

Summary

Presenter(s) : BILLONI, Marina

Session Classification : NLO

Contribution ID : 69

Type : **not specified**

Three-loop gauge beta function in non-simple gauge groups

Thursday, 26 September 2013 17:00 (30)

Summary

Presenter(s) : MIHALA, Luminita

Session Classification : Multiloop

Contribution ID : 70

Type : **not specified**

QCD thermodynamics at three loops: methods and results

Thursday, 26 September 2013 14:30 (30)

Summary

Presenter(s) : SCHRODER, York

Session Classification : Multiloop

Contribution ID : 71

Type : **not specified**

TF² contributions to 3-loop Deep-inelastic wilson coefficients

Thursday, 26 September 2013 15:00 (30)

Summary

Presenter(s) : HASSELHUHN, Alexander

Session Classification : Multiloop

Contribution ID : 73

Type : **not specified**

Four-loop on-shell integrals: $\overline{\text{MS}}$ -on-shell relation and $g-2$

Thursday, 26 September 2013 16:30 (30)

Summary

Presenter(s) : MARQUARD, Peter

Session Classification : Multiloop

Contribution ID : 75

Type : **not specified**

Top-quark pair production in a running mass scheme

Thursday, 26 September 2013 15:30 (30)

Summary

Presenter(s) : DOWLING, Matthew

Session Classification : Multiloop

Contribution ID : 76

Type : **not specified**

Transition form factor in Higgs production through two-photon processes

Thursday, 26 September 2013 16:30 (30)

Summary

Presenter(s) : UEMATSU, Tsuneo

Session Classification : Higgs and resummation

Contribution ID : 77

Type : **not specified**

Higgs production in e and gamma collisions

Thursday, 26 September 2013 17:00 (30)

Summary

Presenter(s) : SASAKI, Ken

Session Classification : Higgs and resummation

Contribution ID : 78

Type : **not specified**

Precise predictions for $t\bar{t}H(bb)$ backgrounds

Tuesday, 24 September 2013 10:30 (30)

Summary

Presenter(s) : POZZORINI, Stefano

Session Classification : NLO

Contribution ID : 79

Type : **not specified**

NLO QCD Corrections to Electroweak Higgs Boson Plus Three Jet Production at the LHC

Thursday, 26 September 2013 17:30 (30)

Summary

Presenter(s) : FIGY, Terrance

Session Classification : Higgs and resummation