

RADCOR 2013

Report of Contributions

Contribution ID: 2

Type: **not specified**

New results for Higgs+jet at NNLO

Monday, September 23, 2013 9:00 AM (30 minutes)

Presenter: PETRIELLO, Frank

Session Classification: NNLO

Contribution ID: 3

Type: **not specified**

NNLO QCD corrections to dijet production at hadron colliders

Monday, September 23, 2013 9:30 AM (30 minutes)

Presenter: PIRES, Joao

Session Classification: NNLO

Contribution ID: 4

Type: **not specified**

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

Contribution ID: 5

Type: **not specified**

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

Monday, September 23, 2013 10:00 AM (30 minutes)

Presenter: STEINHAUSER, Matthias

Session Classification: NNLO

Contribution ID: 6

Type: **not specified**

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

Monday, September 23, 2013 10:30 AM (30 minutes)

Presenter: TANCREDI, Lorenzo

Session Classification: NNLO

Contribution ID: 7

Type: **not specified**

Multiloop integrals in dimensional regularization made simple

Monday, September 23, 2013 12:30 PM (30 minutes)

Presenter: HENN, Johannes

Session Classification: Tools

Contribution ID: 9

Type: **not specified**

Compactifying formulas with FORM

Monday, September 23, 2013 11:30 AM (30 minutes)

Presenter: VERMASEREN, Jozef

Session Classification: Tools

Contribution ID: 10

Type: **not specified**

Recent results from GENEVA

Monday, September 23, 2013 12:00 PM (30 minutes)

Presenter: BAUER, Christian

Session Classification: Tools

Contribution ID: 11

Type: **not specified**

Dyck Words and Multi-Quark Amplitudes

Monday, September 23, 2013 3:00 PM (30 minutes)

Presenter: MELIA, Tom

Session Classification: NLO

Contribution ID: 12

Type: **not specified**

Helicity amplitudes for high-energy scattering processes

Monday, September 23, 2013 2:30 PM (30 minutes)

Presenter: VAN HAMEREN, Andreas

Session Classification: NLO

Contribution ID: 13

Type: **not specified**

EW and QCD One-Loop Amplitudes with RECOLA

Monday, September 23, 2013 3:30 PM (30 minutes)

Presenter: UCCIRATI, Sandro

Session Classification: NLO

Contribution ID: 14

Type: **not specified**

Interfacing GoSam with Monte Carlo event generators

Presenter: 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, September 23, 2013 2:30 PM (30 minutes)

Presenter: HERMANN, Thomas

Session Classification: NNLO

Contribution ID: 16

Type: **not specified**

Progress towards vector boson pair production at NNLO

Monday, September 23, 2013 3:00 PM (30 minutes)

Presenter: RATHLEV, Dirk

Session Classification: NNLO

Contribution ID: 17

Type: **not specified**

Colourful antenna subtraction

Monday, September 23, 2013 3:30 PM (30 minutes)

Presenter: CURRIE, James

Session Classification: NNLO

Contribution ID: **18**

Type: **not specified**

Interfacing GoSam with Monte Carlo event generators

Monday, September 23, 2013 4:30 PM (30 minutes)

Presenter: LUISONI, Gionata

Session Classification: NLO

Contribution ID: 19

Type: **not specified**

Diphoton + jet at NLO

Monday, September 23, 2013 5:00 PM (30 minutes)

Presenter: GREINER, Nicolas

Session Classification: NLO

Contribution ID: 20

Type: **not specified**

NLO QCD corrections to Higgs plus jets production at LHC

Presenter: VAN DEURZEN, Hans

Contribution ID: 21

Type: **not specified**

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

Thursday, September 26, 2013 12:30 PM (30 minutes)

Presenter: SCHABINGER, Robert

Session Classification: Top

Contribution ID: 22

Type: **not specified**

Top quark pairs at two loops, multiple polylogarithms and Reduze2

Monday, September 23, 2013 5:00 PM (30 minutes)

Presenter: VON MANTEUFFEL, Andreas

Session Classification: Tools

Contribution ID: 23

Type: **not specified**

Multiloop Integrand Reduction via Multivariate Polynomial Division

Monday, September 23, 2013 5:30 PM (30 minutes)

Presenter: PERARO, Tiziano

Session Classification: Tools

Contribution ID: 24

Type: **not specified**

NLO diphoton+2-jet production at the LHC

Monday, September 23, 2013 5:30 PM (30 minutes)

Presenter: LO PRESTI, Nicola Adriano

Session Classification: NLO

Contribution ID: 25

Type: **not specified**

Event by event weighting at NLO

Tuesday, September 24, 2013 9:00 AM (30 minutes)

Presenter: WILLIAMS, Ciaran

Session Classification: NLO

Contribution ID: 26

Type: **not specified**

GoSam @ LHC: algorithms and applications to Higgs production

Tuesday, September 24, 2013 9:30 AM (30 minutes)

Presenter: MASTROLIA, Pierpaolo

Session Classification: NLO

Contribution ID: 27

Type: **not specified**

Universality in W+Jet production

Tuesday, September 24, 2013 10:00 AM (30 minutes)

Presenter: 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, September 24, 2013 11:30 AM (30 minutes)

Presenter: KUEHN, Johann

Session Classification: NLO

Contribution ID: 29

Type: **not specified**

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

Tuesday, September 24, 2013 12:00 PM (30 minutes)

Presenter: DITTMAIER, Stefan

Session Classification: NLO

Contribution ID: 30

Type: **not specified**

Electroweak corrections to Z + 2 jets production at the LHC

Tuesday, September 24, 2013 12:30 PM (30 minutes)

Presenter: DENNER, Ansgar

Session Classification: NLO

Contribution ID: 31

Type: **not specified**

Higgs precision physics: the next step

Wednesday, September 25, 2013 9:00 AM (30 minutes)

Presenter: PASSARINO, Giampiero

Session Classification: Higgs and resummation

Contribution ID: 32

Type: **not specified**

Bounding the Higgs width using interferometry

Wednesday, September 25, 2013 9:30 AM (30 minutes)

Presenter: DIXON, Lance

Session Classification: Higgs and resummation

Contribution ID: 33

Type: **not specified**

Resummed predictions for the jet-veto Higgs cross section

Wednesday, September 25, 2013 10:00 AM (30 minutes)

Presenter: NEUBERT, Matthias

Session Classification: Higgs and resummation

Contribution ID: 34

Type: **not specified**

High Energy Jets and Next-to-leading Order

Presenter: ANDERSEN, Jeppe

Contribution ID: 35

Type: **not specified**

A fresh look at (non)renormalizable QFTs

Thursday, September 26, 2013 9:00 AM (30 minutes)

Presenter: PITTAU, Roberto

Session Classification: Multiloop

Contribution ID: 36

Type: **not specified**

The number theory of radiative corrections

Thursday, September 26, 2013 9:30 AM (30 minutes)

Presenter: BROADHURST, David

Session Classification: Multiloop

Contribution ID: 37

Type: **not specified**

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

Thursday, September 26, 2013 10:00 AM (30 minutes)

Presenter: DE FREITAS, Abilio

Session Classification: Multiloop

Contribution ID: 38

Type: **not specified**

Towards QCD running in 5 loops: quark mass anomalous dimension

Thursday, September 26, 2013 10:30 AM (30 minutes)

Presenter: CHETYRKIN, Konstantin

Session Classification: Multiloop

Contribution ID: 39

Type: **not specified**

Fixed order total cross section results for heavy quark pair production

Thursday, September 26, 2013 11:30 AM (30 minutes)

Presenter: CZAKON, Michael

Session Classification: Top

Contribution ID: 41

Type: **not specified**

Threshold production of unstable top

Thursday, September 26, 2013 12:00 PM (30 minutes)

Presenter: PENIN, Alexander

Session Classification: Top

Contribution ID: 42

Type: **not specified**

High energy jets and NLO

Friday, September 27, 2013 9:00 AM (30 minutes)

Presenter: ANDERSEN, Jeppe

Session Classification: Multiloop

Contribution ID: 43

Type: **not specified**

Perturbative calculations for jet substructure

Friday, September 27, 2013 9:30 AM (30 minutes)

Presenter: MARZANI, Simone

Session Classification: Multiloop

Contribution ID: 44

Type: **not specified**

Jet broadening

Friday, September 27, 2013 10:00 AM (30 minutes)

Presenter: BELL, Guido

Session Classification: Multiloop

Contribution ID: 45

Type: **not specified**

PDFs for the LHC

Friday, September 27, 2013 10:30 AM (30 minutes)

Presenter: 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, September 27, 2013 11:30 AM (30 minutes)

Presenter: WARD, Bennie

Session Classification: Higgs and resummation

Contribution ID: 47

Type: **not specified**

Progress on soft gluon exponentiation and long-distance singularities

Friday, September 27, 2013 12:00 PM (30 minutes)

Presenter: GARDI, Einar

Session Classification: Higgs and resummation

Contribution ID: 48

Type: **not specified**

Beyond Reggeization for two- and three-loop QCD amplitudes

Friday, September 27, 2013 12:30 PM (30 minutes)

Presenter: MAGNEA, Lorenzo

Session Classification: Higgs and resummation

Contribution ID: 50

Type: **not specified**

Status of OpenLoops and simulation of H -> WW backgrounds

Tuesday, September 24, 2013 3:30 PM (30 minutes)

Presenter: MAIERHÖFER, Philipp

Session Classification: NLO

Contribution ID: 51

Type: **not specified**

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

Tuesday, September 24, 2013 2:30 PM (30 minutes)

Presenter: AGRAWAL, Pankaj

Session Classification: NLO

Contribution ID: 52

Type: **not specified**

Dipole subtraction with random polarisations

Tuesday, September 24, 2013 3:00 PM (30 minutes)

Presenter: GOETZ, Daniel

Session Classification: NLO

Contribution ID: 53

Type: **not specified**

NLO mass effects in bbbb production at the LHC

Thursday, September 26, 2013 3:30 PM (30 minutes)

Presenter: 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, September 24, 2013 2:30 PM (30 minutes)

Presenter: BOROWKA, Sophia

Session Classification: Tools

Contribution ID: 56

Type: **not specified**

Replacing 1-loop tensor reduction by contractions

Tuesday, September 24, 2013 3:00 PM (30 minutes)

Presenter: RIEMANN, Tord

Session Classification: Tools

Contribution ID: 57

Type: **not specified**

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

Tuesday, September 24, 2013 3:30 PM (30 minutes)

Presenter: ROBENS, Tania

Session Classification: Tools

Contribution ID: 59

Type: **not specified**

Transverse Parton Distribution Functions at NNLO

Monday, September 23, 2013 4:30 PM (30 minutes)

Presenter: LÜBBERT, Thomas

Session Classification: Tools

Contribution ID: 61

Type: **not specified**

Tri-vector boson production at NLO with parton shower

Tuesday, September 24, 2013 4:30 PM (30 minutes)

Presenter: VAJRVELU, 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, September 24, 2013 5:00 PM (30 minutes)

Presenter: MATHEWS, Prakash

Session Classification: NLO

Contribution ID: 63

Type: **not specified**

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

Tuesday, September 24, 2013 5:30 PM (30 minutes)

Presenter: KALLWEIT, Stefan

Session Classification: NLO

Contribution ID: 64

Type: **not specified**

Threshold corrections to inclusive jet production at hadron colliders

Tuesday, September 24, 2013 5:30 PM (30 minutes)

Presenter: MEDURI, Chakravartula

Session Classification: Higgs and resummation

Contribution ID: 65

Type: **not specified**

Soft Gluon Effects in Four Parton Hard-Scattering Processes

Tuesday, September 24, 2013 4:30 PM (30 minutes)

Presenter: 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, September 24, 2013 5:00 PM (30 minutes)

Presenter: 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, September 26, 2013 2:30 PM (30 minutes)

Presenter: 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, September 26, 2013 3:00 PM (30 minutes)

Presenter: BILLONI, Marina

Session Classification: NLO

Contribution ID: 69

Type: **not specified**

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

Thursday, September 26, 2013 5:00 PM (30 minutes)

Presenter: MIHAILA, Luminita

Session Classification: Multiloop

Contribution ID: 70

Type: **not specified**

QCD thermodynamics at three loops: methods and results

Thursday, September 26, 2013 2:30 PM (30 minutes)

Presenter: SCHRODER, York

Session Classification: Multiloop

Contribution ID: 71

Type: **not specified**

TF² contributions to 3-loop Deep-inelastic wilson coefficients

Thursday, September 26, 2013 3:00 PM (30 minutes)

Presenter: 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, September 26, 2013 4:30 PM (30 minutes)

Presenter: MARQUARD, Peter

Session Classification: Multiloop

Contribution ID: 75

Type: **not specified**

Top-quark pair production in a running mass scheme

Thursday, September 26, 2013 3:30 PM (30 minutes)

Presenter: DOWLING, Matthew

Session Classification: Multiloop

Contribution ID: 76

Type: **not specified**

Transition form factor in Higgs production through two-photon processes

Thursday, September 26, 2013 4:30 PM (30 minutes)

Presenter: UEMATSU, Tsuneo

Session Classification: Higgs and resummation

Contribution ID: 77

Type: **not specified**

Higgs production in e and gamma collisions

Thursday, September 26, 2013 5:00 PM (30 minutes)

Presenter: SASAKI, Ken

Session Classification: Higgs and resummation

Contribution ID: 78

Type: **not specified**

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

Tuesday, September 24, 2013 10:30 AM (30 minutes)

Presenter: 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, September 26, 2013 5:30 PM (30 minutes)

Presenter: FIGY, Terrance

Session Classification: Higgs and resummation