

LoopFest VII

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome by the Dean of the College of Arts & Sciences

Wednesday 14 May 2008 08:20 (10 minutes)

Presenter: MCCOMBE, Bruce (University at Buffalo)

Session Classification: Session I

Contribution ID: 1

Type: **not specified**

Precision electroweak measurements

Wednesday 14 May 2008 08:30 (30 minutes)

Presenter: CLARE, Bob (University of California)

Session Classification: Session I

Contribution ID: 2

Type: **not specified**

Precision Electroweak Measurements and Constraints on New Physics

Wednesday 14 May 2008 09:00 (30 minutes)

Presenter: SKIBA, Witold (Yale University)

Session Classification: Session I

Contribution ID: 3

Type: **not specified**

Discovering New Physics with Early LHC Data

Wednesday 14 May 2008 09:30 (30 minutes)

Presenter: LANDSBERG, Greg (Brown University)

Session Classification: Session I

Contribution ID: 4

Type: **not specified**

Three-loop corrections to the lightest Higgs Boson mass in the MSSM

*Wednesday 14 May 2008 10:30 (30 minutes)***Presenter:** STEINHAUSER, Matthias (Karlsruhe University)**Session Classification:** Session II

Contribution ID: 5

Type: **not specified**

SUSY-QCD corrections to Higgs processes

Wednesday 14 May 2008 11:00 (30 minutes)

Presenter: JACKSON, Chris (BNL)

Session Classification: Session II

Contribution ID: 6

Type: **not specified**

Recent progress in NNLO calculations

Wednesday 14 May 2008 11:30 (30 minutes)

Presenter: GRAZZINI, Massimiliano (CERN)

Session Classification: Session II

Contribution ID: 7

Type: **not specified**

Top Mass from Jets at the ILC: Two loop results and More

Wednesday 14 May 2008 14:00 (30 minutes)

Presenter: STEWART, Iain (MIT)

Session Classification: Session III

Contribution ID: 8

Type: **not specified**

NNLO corrections to the $b \rightarrow s \gamma$ decay

Wednesday 14 May 2008 14:30 (30 minutes)

Presenter: BOUGHEZAL, Radja (University Wuerzburg)

Session Classification: Session III

Contribution ID: 9

Type: **not specified**

Heavy flavour corrections to DIS at 2- and 3-loop order

*Wednesday 14 May 2008 16:00 (30 minutes)***Presenter:** BLUEMLEIN, Johannes (DESY)**Session Classification:** Session IV

Contribution ID: **10**

Type: **not specified**

W production at large transverse momentum

Wednesday 14 May 2008 16:30 (30 minutes)

Presenter: KUEHN, Johann (University Karlsruhe)

Session Classification: Session IV

Contribution ID: 11

Type: **not specified**

Towards top-quark pair production predictions at NNLO in QCD

*Wednesday 14 May 2008 17:00 (30 minutes)***Presenter:** CZAKON, Michal (University Wuerzburg)**Session Classification:** Session IV

Contribution ID: 12

Type: **not specified**

$N^3\text{LO}$ $t\bar{t}$ threshold cross section

Wednesday 14 May 2008 17:30 (30 minutes)

Presenter: KIYO, Yuichiro (Universitaet Karlsruhe)

Session Classification: Session IV

Contribution ID: 13

Type: **not specified**

An overview of on-shell methods and their applications

Thursday 15 May 2008 08:30 (30 minutes)

Presenter: BERN, Zvi (UCLA)

Session Classification: Session V

Contribution ID: 14

Type: **not specified**

Integral coefficients for one-loop amplitudes

Friday 16 May 2008 10:30 (30 minutes)

Presenter: BRITTO, Ruth

Session Classification: Session X

Contribution ID: 15

Type: **not specified**

Automated Computation of One-Loop Amplitudes

Thursday 15 May 2008 09:00 (30 minutes)

Presenter: FORDE, Darren (SLAC)

Session Classification: Session V

Contribution ID: **16**

Type: **not specified**

QCD corrections to WWZ production

Thursday 15 May 2008 11:30 (30 minutes)

Presenter: HANKELE, Vera (Karlsruhe University)

Session Classification: Session VI

Contribution ID: **18**Type: **not specified**

NLO QCD corrections to WW+jet production at hadron colliders

*Thursday 15 May 2008 12:00 (30 minutes)***Presenter:** UWER, Peter (Forschungszentrum Karlsruhe GmbH (FZK))**Session Classification:** Session VI

Contribution ID: 19

Type: **not specified**

On the Numerical Evaluation of Gluonic One-Loop Amplitudes

Thursday 15 May 2008 13:30 (30 minutes)

Presenter: ZANDERIGHI, Giulia (Unknown)

Session Classification: Session VII

Contribution ID: 20

Type: **not specified**

QCD Corrections to Weak Vector Boson Production Associated to Heavy Quark Jets at Hadron Colliders

*Thursday 15 May 2008 14:00 (30 minutes)***Presenter:** FEBRES CORDERO, Fernando (UCLA)**Session Classification:** Session VII

Contribution ID: 21

Type: **not specified**

NLO QCD corrections to $t\bar{t}Z$ production

Thursday 15 May 2008 14:30 (30 minutes)

Presenter: MCELMURRY, Thomas (University of Wisconsin)

Session Classification: Session VII

Contribution ID: 22

Type: **not specified**

Electroweak and QCD corrections to Higgs-boson production in vector-boson fusion at the LHC

*Thursday 15 May 2008 16:00 (30 minutes)***Presenter:** DITTMAIER, Stefan (MPI fuer Physik)**Session Classification:** Session VIII

Contribution ID: 23

Type: **not specified**

Higgs plus three jets via vector boson fusion at NLO QCD

*Thursday 15 May 2008 16:30 (30 minutes)***Presenter:** FIGY, Terrance (University of Durham)**Session Classification:** Session VIII

Contribution ID: 24

Type: **not specified**

Mixed QCD-electroweak contributions to Higgs-plus-dijet production at the LHC

Thursday 15 May 2008 17:00 (30 minutes)

Presenter: JAEGER, Barbara (KEK)

Session Classification: Session VIII

Contribution ID: 25

Type: **not specified**

Recent developments in MadGraph/MadEvent

Friday 16 May 2008 08:30 (30 minutes)

Presenter: ALWALL, Johan (SLAC)

Session Classification: Session IX

Contribution ID: 26

Type: **not specified**

One-loop Integral Coefficients from Generalized Unitarity

Friday 16 May 2008 11:00 (30 minutes)

Presenter: KILGORE, William (BNL)

Session Classification: Session X

Contribution ID: 27

Type: **not specified**

SHERPA: New developments

Friday 16 May 2008 09:00 (30 minutes)

Presenter: WINTER, Jan (Fermilab)

Session Classification: Session IX

Contribution ID: 28

Type: **not specified**

Towards NLO predictions for 4 b-jets at the LHC

Friday 16 May 2008 09:30 (30 minutes)

Presenter: REITER, Thomas (University of Edinburgh)

Session Classification: Session IX

Contribution ID: 29

Type: **not specified**

Scalar one-loop integrals for QCD

Friday 16 May 2008 11:30 (30 minutes)

Presenter: ELLIS, Keith (Fermilab)

Session Classification: Session X

Contribution ID: 30

Type: **not specified**

Automating dipole subtraction for QCD NLO calculations

*Friday 16 May 2008 13:45 (30 minutes)***Presenter:** GLEISBERG, Tanju (SLAC)**Session Classification:** Session XI

Contribution ID: **31**

Type: **not specified**

TBA

Presenter: MASTROLIA, Pierpaolo (CERN)

Contribution ID: 32

Type: **not specified**

Loop precision and the advent of the Large Hadron Collider

*Friday 16 May 2008 14:45 (45 minutes)***Presenter:** REINA, Laura (Florida State University)**Session Classification:** Session XI

Contribution ID: 34

Type: **not specified**

Current and future developments in WHIZARD

Friday 16 May 2008 14:15 (30 minutes)

Presenter: KLEINSCHMIDT, Tobias (Universitaet Siegen)

Session Classification: Session XI

Contribution ID: 35

Type: **not specified**

Two-loop amplitudes for gauge boson pair production in QCD

*Thursday 15 May 2008 11:00 (30 minutes)***Presenter:** CHACHAMIS, Grigorios (University Wuerzburg)**Session Classification:** Session VI

Contribution ID: 36

Type: **not specified**

Complete electroweak corrections to $e^+e^- \rightarrow 3$ jets at the ILC

*Thursday 15 May 2008 17:30 (30 minutes)***Presenter:** PICCININI, Fulvio (Unknown)**Session Classification:** Session VIII

Contribution ID: 37

Type: **not specified**

Constructing loop amplitudes from tree amplitudes

*Thursday 15 May 2008 09:30 (30 minutes)***Presenter:** GIELE, Walter (Fermilab)**Session Classification:** Session V

Contribution ID: 38

Type: **not specified**

NNLO corrections to event shapes and jet rates in e^+e^-

*Wednesday 14 May 2008 12:00 (30 minutes)***Presenter:** GEHRMANN, Thomas (Universitaet Zuerich)**Session Classification:** Session II

Contribution ID: 39

Type: **not specified**

NNLO corrections to heavy fermion decays

Wednesday 14 May 2008 15:00 (15 minutes)

$\mathcal{O}(\alpha_s^2)$ corrections to semileptonic b-quark decay rate are calculated to several orders in m_c/m_b . Applied to the muon decay, they lead to a -0.43 ppm decrease in the lifetime. We also present recent results of our group on NNLO corrections to t-quark decay into polarized W-bosons.

Presenter: PAK, Alexey (University of Alberta)

Session Classification: Session III

Contribution ID: 40

Type: **not specified**

Second order QCD effects in $b \rightarrow c \ell \nu_\ell$

Thursday 15 May 2008 10:30 (30 minutes)

Presenter: MELNIKOV, Kirill (University of Hawaii)

Session Classification: Session VI

Contribution ID: 41

Type: **not specified**

The six-photon amplitudes

Friday 16 May 2008 12:00 (15 minutes)

Presenter: BERNICOT, Christophe (LAPTH)

Session Classification: Session X

Contribution ID: 42

Type: **not specified**

Second Order Corrections To Heavy Quark Decays At Intermediate Recoil

*Wednesday 14 May 2008 15:15 (15 minutes)***Presenter:** DOWLING, Matt (University of Alberta)**Session Classification:** Session III

Contribution ID: 44

Type: **not specified**

(Some) new stuff for top production at hadron colliders

Thursday 15 May 2008 15:00 (30 minutes)

Presenter: MITOV, Alexander (SUNY Stony Brook)

Session Classification: Session VII