

# **Loopfest X**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **NLO QCD Corrections to 4b Production**

*Thursday, 12 May 2011 14:50 (30 minutes)*

**Presenter:** GREINER, Nicolas (University of Illinois)

**Session Classification:** Session III

Contribution ID: 1

Type: **not specified**

# **Automation of One-Loop Calculations with GOLEM/SAMURAI**

*Thursday, 12 May 2011 13:20 (30 minutes)*

**Presenter:** OSSOLA, Giovanni (City Tech)

**Session Classification:** Session III

Contribution ID: 2

Type: **not specified**

## HELAC-NLO

*Thursday, 12 May 2011 13:50 (30 minutes)*

**Presenter:** WOREK, Malgorzata (Wuppertal)

**Session Classification:** Session III

Contribution ID: 3

Type: **not specified**

## **NLO Predictions with MCFM**

*Friday, 13 May 2011 09:30 (30 minutes)*

**Presenter:** WILLIAMS, Ciaran (Fermilab)

**Session Classification:** Session V

Contribution ID: 4

Type: **not specified**

## Jet Pair Production with POWHEG

*Friday, 13 May 2011 08:30 (30 minutes)*

**Presenter:** RE, Emanuele (Durham)

**Session Classification:** Session V

Contribution ID: 5

Type: **not specified**

## **W and Z plus jets, with POWHEG and SHERPA**

*Friday, 13 May 2011 09:00 (30 minutes)*

**Presenter:** HOECHE, Stefan (SLAC)

**Session Classification:** Session V

Contribution ID: 6

Type: **not specified**

## **Uli Baur and electroweak precision physics with W and Z bosons**

*Thursday, 12 May 2011 15:40 (20 minutes)*

**Presenter:** WACKEROTH, Doreen (Buffalo)

**Session Classification:** In Memory of Uli Baur



Contribution ID: 7

Type: **not specified**

## **Uli Baur and the W Mass Measurement**

*Thursday, 12 May 2011 16:00 (30 minutes)*

**Presenter:** KOTWAL, Ashutosh (Duke)

**Session Classification:** In Memory of Uli Baur

Contribution ID: 8

Type: **not specified**

## **Uli Baur, Top Physics, and the LHC Theory Initiative**

**Presenter:** ORR, Lynne (Rochester)

Contribution ID: 9

Type: **not specified**

## **QCD Corrections to Gauge Boson Pair Production with Anomalous Couplings**

*Thursday, 12 May 2011 16:30 (20 minutes)*

**Presenter:** HAN, Tao (University of Wisconsin)

**Session Classification:** In Memory of Uli Baur

Contribution ID: 10

Type: **not specified**

## **Heavy quark production in association with a W-boson**

*Thursday, 12 May 2011 08:30 (30 minutes)*

**Presenter:** ELLIS, Keith (Fermilab)

**Session Classification:** Session I

Contribution ID: 11

Type: **not specified**

## **W and Z Production at NNLO using FEWZ 2.0**

*Thursday, 12 May 2011 09:00 (30 minutes)*

**Presenter:** QUACKENBUSH, Seth (ANL)

**Session Classification:** Session I

Contribution ID: 12

Type: **not specified**

## PDF Issues

*Thursday, 12 May 2011 09:30 (30 minutes)*

**Presenter:** OLNESS, Fred (Southern Methodist University)

**Session Classification:** Session I

Contribution ID: 13

Type: **not specified**

## Welcome

*Thursday, 12 May 2011 08:15 (15 minutes)*

**Presenter:** Prof. SCHELLMAN, Heidi (Northwestern University)

**Session Classification:** Session I

Contribution ID: 14

Type: **not specified**

## Simulation of W fusion and Higgs Processes

*Thursday, 12 May 2011 10:20 (30 minutes)*

**Presenter:** JAEGER, Barbara (Mainz)

**Session Classification:** Session II



Contribution ID: 15

Type: **not specified**

## **Higgs Production in Gluon Fusion: Recent Developments**

*Thursday, 12 May 2011 10:50 (30 minutes)*

**Presenter:** PAK, Alexey (Karlsruhe)

**Session Classification:** Session II

Contribution ID: 16

Type: **not specified**

## **Application of the collinear anomaly: $q_T$ resummation and jet broadening**

*Thursday, 12 May 2011 11:20 (30 minutes)*

**Presenter:** NEUBERT, Matthias (Mainz)

**Session Classification:** Session II

Contribution ID: 17

Type: **not specified**

## **Electroweak Results from Hadron Colliders**

*Friday, 13 May 2011 10:50 (45 minutes)*

**Presenter:** SCHMITT, Michael (Northwestern University)

**Session Classification:** Session VI

Contribution ID: 18

Type: **not specified**

## **Transverse Momentum Distributions from Effective Field Theory**

*Friday, 13 May 2011 11:35 (30 minutes)*

**Presenter:** MANTRY, Sonny (University of Wisconsin)

**Session Classification:** Session VI

Contribution ID: 19

Type: **not specified**

## **Squark production at the LHC at electroweak NLO**

*Friday, 13 May 2011 12:05 (30 minutes)*

**Presenter:** HOLLIK, Wolfgang (Munich)

**Session Classification:** Session VI

Contribution ID: 20

Type: **not specified**

## **Thrust distribution resummation in $e^+e^-$ collisions**

*Friday, 13 May 2011 14:00 (30 minutes)*

**Presenter:** MONNI, Pier Francesco (Zurich)

**Session Classification:** Session VII

Contribution ID: 21

Type: **not specified**

# **NNLL Resummation for N-jet Production at Hadron Colliders**

*Friday, 13 May 2011 14:30 (30 minutes)*

**Presenter:** JOUTTENUS, Teppo (MIT)

**Session Classification:** Session VII

Contribution ID: 22

Type: **not specified**

## **Higher Order Threshold Effects for Heavy Colored Particles**

*Friday, 13 May 2011 15:00 (30 minutes)*

**Presenter:** SCHWINN, Christian (Freiburg)

**Session Classification:** Session VII



Contribution ID: 23

Type: **not specified**

## **Determination of $\alpha_s(m_Z)$ : N3LL analysis of Thrust distribution with Power Corrections**

*Friday, 13 May 2011 16:00 (30 minutes)*

**Presenter:** ABBATE, Riccardo (MIT)

**Session Classification:** Session VIII

Contribution ID: 24

Type: **not specified**

## **Charm Mass Determination from QCD Sum Rules at $O(\alpha_s^3)$**

*Friday, 13 May 2011 16:30 (30 minutes)*

**Presenter:** MATEU, Vicent (MIT)

**Session Classification:** Session VIII

Contribution ID: 25

Type: **not specified**

## **Prediction of Missing E\_T Distributions at the LHC with Blackhat**

*Friday, 13 May 2011 17:00 (30 minutes)*

**Presenter:** OZEREN, Kemal (UCLA)

**Session Classification:** Session VIII

Contribution ID: 26

Type: **not specified**

## **Towards NNLO Corrections to Jet Cross Sections in Hadronic Collisions**

*Friday, 13 May 2011 17:30 (30 minutes)*

**Presenter:** PIRES, Joao (ETH)

**Session Classification:** Session VIII

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(no title)

Contribution ID: 27

Type: **not specified**

**(no title)**

Contribution ID: 28

Type: **not specified**

# Top Quark Pair Production in Association with a Photon

*Saturday, 14 May 2011 09:00 (30 minutes)*

**Presenter:** SCHULZE, Markus (Johns Hopkins)

**Session Classification:** Session IX

Contribution ID: 29

Type: **not specified**

## Recent Progress in Multi-Loop Calculations

*Saturday, 14 May 2011 09:30 (30 minutes)*

**Presenter:** MARQUARD, Peter (Karlsruhe)

**Session Classification:** Session IX

Contribution ID: 31

Type: **not specified**

## **Progress on Parton Showers at NLO**

*Saturday, 14 May 2011 10:30 (30 minutes)*

**Presenter:** HORNIG, Andrew (Washington)

**Session Classification:** Session X



Contribution ID: 32

Type: **not specified**

## **The Epsilon Expansion via Hypergeometric Functions and Differential Reduction**

**Presenter:** YOST, Scott (Citadel)

Contribution ID: 33

Type: **not specified**

## **SecDec: A Versatile Tool for Multi-loop/leg Calculations**

*Saturday, 14 May 2011 11:00 (30 minutes)*

**Presenter:** CARTER, Jonathan (Durham)

**Session Classification:** Session X

Contribution ID: 34

Type: **not specified**

## Understanding and Proving the Expansion by Regions

*Saturday, 14 May 2011 11:30 (30 minutes)*

**Presenter:** JANTZEN, Bernd (Aachen)

**Session Classification:** Session X

Contribution ID: 35

Type: **not specified**

## **NLO QCD Corrections to WWbb Production at Hadron Colliders**

*Saturday, 14 May 2011 13:45 (30 minutes)*

**Presenter:** KALLWEIT, Stefan (PSI)

**Session Classification:** Session XI

Contribution ID: 36

Type: **not specified**

## **Multi-Jet Predictions for the LHC**

*Saturday, 14 May 2011 14:15 (30 minutes)*

**Presenter:** GIELE, Walter (Fermilab)

**Session Classification:** Session XI

Contribution ID: 37

Type: **not specified**

## Summary

*Saturday, 14 May 2011 14:45 (45 minutes)*

**Presenter:** MELNIKOV, Kirill (Johns Hopkins)

**Session Classification:** Session XI

Contribution ID: 38

Type: **not specified**

## **MadGOLEM: Automating NLO Calculations for New Physics Searches at Hadron Colliders**

*Thursday, 12 May 2011 14:20 (30 minutes)*

**Presenter:** LOPEZ-TAL, David (Heidelberg)

**Session Classification:** Session III

Contribution ID: 39

Type: **not specified**

## **Computation of Two Loop Integrals with Masses by Numerical Integration and Extrapolation**

*Friday, 13 May 2011 12:35 (30 minutes)*

**Presenter:** YUASA, Fukuko (KEK)

**Session Classification:** Session VI



Contribution ID: 40

Type: **not specified**

## **Squark and Gluino Production at the LHC**

*Friday, 13 May 2011 10:00 (30 minutes)*

**Presenter:** KULESZA, Anna (Aachen)

**Session Classification:** Session V

Contribution ID: 41

Type: **not specified**

## **Regularization Schemes and Higher Order Corrections**

*Thursday, 12 May 2011 11:50 (30 minutes)*

**Presenter:** KILGORE, William (Brookhaven National Laboratory)

**Session Classification:** Session II

Contribution ID: 42

Type: **not specified**

# **Computer Algebra Algorithms for Harmonic Sums and Polylogarithms and their Generalizations**

*Saturday, 14 May 2011 12:00 (30 minutes)*

**Presenter:** ABLINGER, Jakob (Linz)

**Session Classification:** Session X