

LoopFest XIII

Report of Contributions

Contribution ID: 1

Type: **not specified**

Folder Pick-up

Wednesday, 18 June 2014 08:00 (20 minutes)

Session Classification: Session I

Contribution ID: 2

Type: **not specified**

Welcome

Wednesday, 18 June 2014 08:20 (20 minutes)

R. K. Hotzler, President of New York City College of Technology

R. Ya. Kezerashvili, Chairman of the Physics Department and of the Center for Theoretical Physics

Session Classification: Session I

Contribution ID: 3

Type: **not specified**

Decoupling theoretical uncertainties from Higgs couplings and similar measurements

Wednesday, 18 June 2014 09:00 (20 minutes)

Presenter: CRANMER, Kyle

Session Classification: Session I

Contribution ID: 4

Type: **not specified**

Vector Boson Production at CMS

Wednesday, 18 June 2014 08:40 (20 minutes)

Presenter: SCHMITT, Michael (Northwestern University)

Session Classification: Session I

Contribution ID: 5

Type: **not specified**

Flavor physics in the LHC era

Wednesday, 18 June 2014 09:20 (20 minutes)

Presenter: Prof. PETROV, Alexey (Wayne State University / MCTP)

Session Classification: Session I

Contribution ID: 6

Type: **not specified**

A META analysis of parton distribution functions

Wednesday, 18 June 2014 09:40 (20 minutes)

Presenter: NADOLSKY, Pavel

Session Classification: Session I

Contribution ID: 7

Type: **not specified**

Automated one-loop calculations with GoSam-2.0

Wednesday, 18 June 2014 10:40 (20 minutes)

Presenter: HEINRICH, Gudrun

Session Classification: Session II

Contribution ID: 8

Type: **not specified**

High multiplicity processes at NLO with BlackHat+Sherpa

Wednesday, 18 June 2014 11:00 (20 minutes)

Presenter: MAITRE, Daniel

Session Classification: Session II

Contribution ID: 9

Type: **not specified**

Loop computations automation in MadGraph5_aMC@NLO

Wednesday, 18 June 2014 11:20 (20 minutes)

Presenter: HIRSCHI, Valentin

Session Classification: Session II

Contribution ID: **10**

Type: **not specified**

Applications of OpenLoops to Top and Higgs Physics

Wednesday, 18 June 2014 11:40 (20 minutes)

Presenter: POZZORINI, Stefano

Session Classification: Session II

Contribution ID: 11

Type: **not specified**

High multiplicity QCD amplitudes with NJet

Wednesday, 18 June 2014 12:00 (20 minutes)

Presenter: YUNDIN, Valery

Session Classification: Session II

Contribution ID: 12

Type: **not specified**

Recent progress in HELAC for NLO and NNLO calculations

Friday, 20 June 2014 12:00 (20 minutes)

Presenter: PAPADOPOULOS, Costas

Session Classification: Session X

Contribution ID: 13

Type: **not specified**

REcursive Computation of One-Loop Amplitudes

Wednesday, 18 June 2014 13:40 (20 minutes)

Presenter: SANDRO, Uccirati

Session Classification: Session III

Contribution ID: 14

Type: **not specified**

One-loop Integrand Reduction with Ninja

Wednesday, 18 June 2014 14:00 (20 minutes)

Presenter: TIZIANO, Peraro

Session Classification: Session III

Contribution ID: 15

Type: **not specified**

The New Les Houches High Precision Wishlist

Wednesday, 18 June 2014 14:20 (20 minutes)

Presenter: Prof. HUSTON, Joey (Michigan State University)

Session Classification: Session III

Contribution ID: 16

Type: **not specified**

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

Wednesday, 18 June 2014 14:40 (20 minutes)

Presenter: BILLONI, Marina (University of Tuebingen)

Session Classification: Session III

Contribution ID: 17

Type: **not specified**

Recent developments in Sherpa

Wednesday, 18 June 2014 15:00 (20 minutes)

Presenter: Mr HOECHE, Stefan (SLAC)

Session Classification: Session III

Contribution ID: 18

Type: **not specified**

Higgs and Drell Yan at NNLOPS with MiNLO

Wednesday, 18 June 2014 15:20 (20 minutes)

Presenter: ZANDERIGHI, Giulia

Session Classification: Session III

Contribution ID: 19

Type: **not specified**

Multijet merging at NLO

Wednesday, 18 June 2014 16:20 (20 minutes)

Presenter: KRAUSS, Frank

Session Classification: Session IV

Contribution ID: 20

Type: **not specified**

Geneva

Wednesday, 18 June 2014 16:40 (20 minutes)

Presenter: Dr ALIOLI, Simone (LBNL & UC Berkeley)

Session Classification: Session IV

Contribution ID: 21

Type: **not specified**

Electroweak Higgs Boson Production in Association with Three Jets (A.K.A. VBF + 1 Jet) at NLO QCD

Wednesday, 18 June 2014 17:20 (20 minutes)

Presenter: Dr FIGY, Terrance (The University of Manchester)

Session Classification: Session IV

Contribution ID: 22

Type: **not specified**

Mixed QCD-electroweak corrections to the Drell-Yan process in the resonance region

Wednesday, 18 June 2014 17:40 (20 minutes)

Presenter: Mr HUSS, Alexander (University of Freiburg)

Session Classification: Session IV

Contribution ID: 23

Type: **not specified**

Using NLO calculations to constrain top-Z couplings at the LHC

Wednesday, 18 June 2014 18:00 (20 minutes)

Presenter: Dr RONTSCH, Raoul (Fermilab)

Session Classification: Session IV

Contribution ID: 24

Type: **not specified**

Higgs plus Jet at NNLO

Thursday, 19 June 2014 08:20 (20 minutes)

Presenter: Dr CAOLA, Fabrizio

Session Classification: Session V

Contribution ID: 25

Type: **not specified**

Precision calculation of Higgs plus one jet at NNLO

Thursday, 19 June 2014 08:40 (20 minutes)

Presenter: MATTHIEU, Jaquier

Session Classification: Session V

Contribution ID: 26

Type: **not specified**

Dijet production at NNLO

Thursday, 19 June 2014 09:00 (20 minutes)

Presenter: JAMES, Currie

Session Classification: Session V

Contribution ID: 27

Type: **not specified**

Sector improved residue subtraction and applications

Thursday, 19 June 2014 09:20 (20 minutes)

Presenter: DAVID, Heymes

Session Classification: Session V

Contribution ID: 28

Type: **not specified**

Differential distributions at NNLO

Thursday, 19 June 2014 09:40 (20 minutes)

Presenter: ACHILLEAS, Lazopoulos

Session Classification: Session V

Contribution ID: 29

Type: **not specified**

Understanding J/psi production 40 years after its discovery

Friday, 20 June 2014 16:40 (20 minutes)

Presenter: QIU, JianWei

Session Classification: Session XII

Contribution ID: 30

Type: **not specified**

The NRQCD matching coefficient at NNNLO and the decay Upsilon -> ll

Friday, 20 June 2014 13:40 (20 minutes)

Presenter: MARQUARD, Peter

Session Classification: Session XI

Contribution ID: 31

Type: **not specified**

NNNLO corrections to top quark pair production at threshold at the ILC

Friday, 20 June 2014 14:00 (20 minutes)

Presenter: STEINHAUSER, Matthias

Session Classification: Session XI

Contribution ID: 32

Type: **not specified**

Higgs Production at N3LO

Friday, 20 June 2014 14:20 (20 minutes)

Presenter: DULAT, Falko

Session Classification: Session XI

Contribution ID: 33

Type: **not specified**

Recent Developments in the Calculation of Massive Quark Corrections to Deep Inelastic Scattering at Three Loops

Friday, 20 June 2014 14:40 (20 minutes)

Presenter: HASSELHUHN, Alexander

Session Classification: Session XI

Contribution ID: 34

Type: **not specified**

Progress towards NNNLO calculations of Higgs production

Friday, 20 June 2014 15:00 (20 minutes)

Presenter: KILGORE, William

Session Classification: Session XI

Contribution ID: 35

Type: **not specified**

A new paralell code for differential Higgs boson cross sections

Friday, 20 June 2014 15:20 (20 minutes)

Presenter: HERZOG, Franz

Session Classification: Session XI

Contribution ID: 36

Type: **not specified**

Some four-loop corrections to the anomalous magnetic moment of the muon

Friday, 20 June 2014 16:20 (20 minutes)

Presenter: KURZ, Alexander

Session Classification: Session XII

Contribution ID: 37

Type: **not specified**

Higher-order corrections to Z branching ratios

Wednesday, 18 June 2014 17:00 (20 minutes)

Presenter: FREITAS, Ayres (University of Pittsburgh)

Session Classification: Session IV

Contribution ID: **38**

Type: **not specified**

Higgs at the ILC

Friday, 20 June 2014 17:00 (20 minutes)

Presenter: Dr HEINEMEYER, Sven (IFCA (CSIC, Santander))

Session Classification: Session XII

Contribution ID: 39

Type: **not specified**

Summary

Friday, 20 June 2014 17:20 (40 minutes)

Presenter: KOSOWER, David

Session Classification: Session XII

Contribution ID: 40

Type: **not specified**

Testing the Standard Model with the electron $g-2$

Friday, 20 June 2014 08:40 (20 minutes)

Presenter: PASSERA, Massimo

Session Classification: Session IX

Contribution ID: 41

Type: **not specified**

Multi-loop unitarity via computational algebraic geometry

Thursday, 19 June 2014 17:20 (20 minutes)

Presenter: YANG, Zhang

Session Classification: Session VIII

Contribution ID: 42

Type: **not specified**

Progress on Multiloop Scattering Amplitudes

Thursday, 19 June 2014 17:40 (20 minutes)

Presenter: MASTROLIA, Pierpaolo

Session Classification: Session VIII

Contribution ID: 43

Type: **not specified**

Two loop corrections to tt and VV production

Thursday, 19 June 2014 18:00 (20 minutes)

Presenter: VON MANTEUFFEL, Andreas

Session Classification: Session VIII

Contribution ID: 44

Type: **not specified**

Colour, flavour, and multi-jet physics at the LHC

Friday, 20 June 2014 08:20 (20 minutes)

Presenter: MELIA, Tom

Session Classification: Session IX

Contribution ID: 45

Type: **not specified**

Progress on the theory wishlist for multiloop integrals

Friday, 20 June 2014 10:40 (20 minutes)

Presenter: HENN, Johannes

Session Classification: Session X

Contribution ID: 46

Type: **not specified**

Magnus and Dyson Series for Master Integrals

Friday, 20 June 2014 11:00 (20 minutes)

Presenter: DI VITA, Stefano

Session Classification: Session X

Contribution ID: 47

Type: **not specified**

A novel approach to integration by parts reduction

Friday, 20 June 2014 11:20 (20 minutes)

Presenter: SCHABINGER, Robert

Session Classification: Session X

Contribution ID: 48

Type: **not specified**

BCFW recursion for amplitudes with off-shell gluons

Friday, 20 June 2014 11:40 (20 minutes)

Presenter: VAN HAMEREN, Andreas

Session Classification: Session X

Contribution ID: 49

Type: **not specified**

Resummation for W/Z/H production at large and small p_T

Thursday, 19 June 2014 10:40 (20 minutes)

Presenter: BECHER, Thomas (Fermilab)

Session Classification: Session VI

Contribution ID: 50

Type: **not specified**

Factorization and resummation for boosted top production at hadron colliders

Thursday, 19 June 2014 11:00 (20 minutes)

Presenter: PECJAK, Ben

Session Classification: Session VI

Contribution ID: 51

Type: **not specified**

Factorization simplified

Thursday, 19 June 2014 11:20 (20 minutes)

Presenter: Prof. SCHWARTZ, Matthew (Harvard University)

Session Classification: Session VI

Contribution ID: 52

Type: **not specified**

Nonglobal logarithms: the fixed order story

Thursday, 19 June 2014 11:40 (20 minutes)

Presenter: Mr ZHU, Hua Xing (Peking University, China)

Session Classification: Session VI

Contribution ID: 53

Type: **not specified**

Comparing Direct and Effective Methods of Resummation

Thursday, 19 June 2014 12:00 (20 minutes)

Presenter: LEE, Christopher

Session Classification: Session VI

Contribution ID: 54

Type: **not specified**

RG-improved fully differential predictions for top-pair production at hadron colliders

Thursday, 19 June 2014 13:40 (20 minutes)

Presenter: BROGGIO, Alessandro

Session Classification: Session VII

Contribution ID: 55

Type: **not specified**

Jet broadening in effective field theory

Thursday, 19 June 2014 14:00 (20 minutes)

Presenter: BELL, Guido

Session Classification: Session VII

Contribution ID: 56

Type: **not specified**

Resummed jet bin predictions

Thursday, 19 June 2014 14:20 (20 minutes)

Presenter: LIU, Xiaohui

Session Classification: Session VII

Contribution ID: 57

Type: **not specified**

Multi-Differential Jet Cross-Sections

Thursday, 19 June 2014 14:40 (20 minutes)

Presenter: NEILL, Duff

Session Classification: Session VII

Contribution ID: 58

Type: **not specified**

News from jet substructure: soft drop

Thursday, 19 June 2014 15:20 (20 minutes)

Presenter: MARZANI, Simone

Session Classification: Session VII

Contribution ID: 59

Type: **not specified**

Soft-gluon resummation for four parton hard-scattering processes

Thursday, 19 June 2014 16:20 (20 minutes)

Presenter: TORRE, Alessandro

Session Classification: Session VIII

Contribution ID: 60

Type: **not specified**

On next-to-eikonal corrections to threshold resummation for electroweak annihilation cross sections

Thursday, 19 June 2014 16:40 (20 minutes)

Presenter: VERNAZZA, Leonardo

Session Classification: Session VIII

Contribution ID: 61

Type: **not specified**

Higgs production in bottom annihilation: Transverse momentum spectrum at NNLO+NNLL

Thursday, 19 June 2014 17:00 (20 minutes)

Presenter: WIESEMANN, Marius

Session Classification: Session VIII

Contribution ID: 62

Type: **not specified**

Towards differential top pair hadro-production

Friday, 20 June 2014 09:00 (20 minutes)

Presenter: ABELOF, Gabriel

Session Classification: Session IX

Contribution ID: 63

Type: **not specified**

Exact Amplitude-Based Resummation Confronts Experiment: Present and Future

Thursday, 19 June 2014 15:00 (20 minutes)

Presenter: WARD, Bennie

Session Classification: Session VII

Contribution ID: 64

Type: **not specified**

Status of VV' production in NNLO QCD

Friday, 20 June 2014 09:20 (20 minutes)

Presenter: RATHLEV, Dirk

Session Classification: Session IX

Contribution ID: 65

Type: **not specified**

Top quark mass effects in Higgs boson pair production at the LHC

Friday, 20 June 2014 09:40 (20 minutes)

Presenter: GRIGO, Jonathan

Session Classification: Session IX