JETSCAPE Winter School & Workshop 2018

Report of Contributions

Contribution ID: **0**

Type: **not specified**

The state of the art in Gaussian emulation

Presenter: Prof. WOLPERT, Robert (Duke University)

Contribution ID: **1** Type: **not specified**

An intro to Machine Learning in HIC

Presenter: Dr PANG, LongGang (Department of physics, UC Berkeley)

Contribution ID: **2** Type: **not specified**

Monte Carlo implementation of QCD processes

Wednesday, 3 January 2018 11:05 (45 minutes)

Presenter: Dr BIERLICH, Christian

Session Classification: School Session

Contribution ID: **3**　　　　　　　　　　　　　　　　　　　Type: **not specified**

JETSCAPE framework: software design

Wednesday, 3 January 2018 11:50 (45 minutes)

Presenter: PUTSCHKE, Joern (Wayne State Univ.)

Session Classification: School Session

Contribution ID: **4**   Type: **not specified**

Jets in vacuum - theory

Wednesday, 3 January 2018 09:10 (45 minutes)

Presenter: Dr MOULT, Ian

Session Classification: School Session

Contribution ID: **5** $\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ Type: **not specified**

Jet quenching - theory

Wednesday, 3 January 2018 09:55 (45 minutes)

Presenter: Dr TYWONIUK, Konrad

Session Classification: School Session

Contribution ID: **6**   Type: **not specified**

Status update from the COMP Working Group I

Presenter: Dr PANG, Long-Gang (LBNL)

Contribution ID: **7**   Type: **not specified**

Duke's plans

Presenters: Prof. WOLPERT, Robert (Duke University); Prof. BASS, Steffen (Duke)

Contribution ID: **8**
Type: **not specified**

OSU's plans

Presenter: Prof. HEINZ, Ulrich (The Ohio State University)

Contribution ID: **9**

Type: **not specified**

LLNL's plans

Presenter: SOLTZ, Ron (LLNL)

Contribution ID: **10** Type: **not specified**

MIT's plans

Presenter: Prof. ROLAND, Gunther (MIT)

Contribution ID: **11** Type: **not specified**

McGill's plans

Presenters: Prof. GALE, Charles (McGill University); Prof. JEON, Sangyong (McGill University)

Contribution ID: **12** Type: **not specified**

TAMU's plans

Presenter: Prof. FRIES, Rainer (Texas A&M University)

Contribution ID: **13** Type: **not specified**

Berkeley's plans

Presenters: Prof. JACAK, Barbara (UC Berkeley); Dr JACOBS, Peter (Lawrence Berkeley National Laboratory); Dr WANG, Xin-Nian (Lawrence Berkeley National Laboratory)

Contribution ID: 14 Type: **not specified**

WSU's plans

Presenters: Dr MAJUMDER, Abhijit (Wayne State University); PUTSCHKE, Joern (Wayne State Univ.); Prof. SCHWIEBERT, Loren (Wayne State University)

Contribution ID: **15** Type: **not specified**

overflow from previous session

Contribution ID: **16** Type: **not specified**

JETSCAPE framework: physics modelling

Wednesday, 3 January 2018 14:00 (45 minutes)

Presenter: CAO, Shanshan (Wayne State University)

Session Classification: School Session

Contribution ID: **17**

Type: **not specified**

Future plans of the COMP Working Group

Presenter: Dr SHEN, Chun (BNL)

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

Future plans of the PHYS Working Group

Presenter: Prof. JEON, Sangyong (McGill University)

Contribution ID: **19** Type: **not specified**

The initial state

Presenter: Dr SCHENKE, Björn (BNL)

Contribution ID: **20**   Type: **not specified**

The state of the art in software frameworks

Presenter: KHALAJ, Ebrahim

Contribution ID: **21** Type: **not specified**

Welcome

Presenter: Dr JACOBS, Peter (Lawrence Berkeley National Laboratory)

Contribution ID: **22**   Type: **not specified**

Initial State

Thursday, 4 January 2018 09:00 (45 minutes)

Presenter: Dr SCHENKE, Bjoern (BNL)

Session Classification: School Session

Contribution ID: **23**   Type: **not specified**

Jet Measurements in pp and AA

Thursday, 4 January 2018 09:45 (45 minutes)

Presenter: Dr ELAYAVALLI, Raghav (Wayne State University)

Session Classification: School Session

Contribution ID: **24**   Type: **not specified**

JETSCAPE framework: Statistical Analysis

Thursday, 4 January 2018 14:15 (45 minutes)

Presenter: COLEMAN, Jacob (Duke University)

Session Classification: School Session

Contribution ID: **25**   Type: **not specified**

Hydrodynamics for nuclear collisions

Thursday, 4 January 2018 13:30 (45 minutes)

Presenter: TEANEY, Derek (Stony Brook)

Session Classification: School Session

Contribution ID: **26**
Type: **not specified**

Computing on GPUs

Friday, 5 January 2018 09:45 (30 minutes)

Presenter: Prof. SCHWIEBERT, Loren (Wayne State University)

Session Classification: School Session

Contribution ID: **27**   Type: **not specified**

Collective Flow: Experiment vs. Theory

Friday, 5 January 2018 09:00 (45 minutes)

Presenter: Prof. ROLAND, Gunther (MIT)

Session Classification: School Session

Contribution ID: **28** Type: **not specified**

Viscous Hydro on GPUs

Presenter: Dr PANG, LongGang (Department of physics, UC Berkeley)

Contribution ID: **29**   Type: **not specified**

Jet Measurements in pp collisions

Friday, 5 January 2018 14:05 (30 minutes)

Presenter: Dr NACHMAN, Ben

Session Classification: Workshop Session

Contribution ID: **30** Type: **not specified**

MC implementation of QCD processes

Friday, 5 January 2018 14:35 (30 minutes)

Presenter: Dr BIERLICH, Christian

Session Classification: Workshop Session

Contribution ID: **31**   Type: **not specified**

Jet Functions

Friday, 5 January 2018 15:05 (30 minutes)

Presenter: Prof. KANG, Zhongbo (University of California Los Angeles)

Session Classification: Workshop Session

Contribution ID: **32**
Type: **not specified**

Jet quenching measurements at RHIC

Friday, 5 January 2018 16:00 (30 minutes)

Presenter: Prof. CAINES, Helen (Yale)

Session Classification: Workshop Session

Contribution ID: **33**
Type: **not specified**

Jet quenching theory overview

Friday, 5 January 2018 16:30 (30 minutes)

Presenter: Prof. JEON, Sangyong (McGill University)

Session Classification: Workshop Session

Contribution ID: **34**   Type: **not specified**

MC implementation of jet quenching

Friday, 5 January 2018 17:00 (30 minutes)

Presenter: Dr MAJUMDER, Abhijit (Wayne State University)

Session Classification: Workshop Session

Contribution ID: **35**   Type: **not specified**

Inner workings of the QGP: Where we are and where are we going?

Friday, 5 January 2018 17:30 (30 minutes)

Presenter: Prof. RAJAGOPAL, Krishna

Session Classification: Workshop Session

Contribution ID: **36**   Type: **not specified**

Jet quenching measurements at the LHC

Saturday, 6 January 2018 09:15 (30 minutes)

Presenter: LEE, Yen-Jie (Massachusetts Institute of Technology)

Session Classification: Workshop Session

Contribution ID: **37**   Type: **not specified**

Small systems and hard probes

Saturday, 6 January 2018 09:45 (30 minutes)

Presenter: Prof. COLE, Brian

Session Classification: Workshop Session

Contribution ID: **38** · · · · Type: **not specified**

Inclusive prompt photon production in e+A DIS at small x as a probe of gluon saturation

Saturday, 6 January 2018 10:15 (18 minutes)

Presenter: ROY, Kaushik (Stony Brook)

Session Classification: Workshop Session

Contribution ID: **39**　　　　　　　　　　　　　　　　　　　　　Type: **not specified**

Jet substructure: theory

Saturday, 6 January 2018 11:00 (30 minutes)

Presenter:　Dr CHIEN, Yang-Ting

Session Classification:　Workshop Session

Contribution ID: **40**   Type: **not specified**

Sudakov suppression of jets in QCD media

Saturday, 6 January 2018 11:30 (30 minutes)

Presenter: Dr MEHTAR-TANI, Yacine

Session Classification: Workshop Session

Contribution ID: **41** Type: **not specified**

Novel tools and observables for jet physics in heavy-ion collisions: a summary

Saturday, 6 January 2018 12:00 (30 minutes)

Presenter: Dr TYWONIUK, Konrad

Session Classification: Workshop Session

Contribution ID: **42** Type: **not specified**

Discussion of Jet Substructure in heavy-ions

Saturday, 6 January 2018 12:30 (1h 30m)

Presenter: PUTSCHKE, Joern (Wayne State Univ.)

Session Classification: Working Lunch

Contribution ID: **43**
Type: **not specified**

Jet quenching at strong coupling

Saturday, 6 January 2018 14:00 (30 minutes)

Presenter: Dr PABLOS, Daniel (McGill)

Session Classification: Workshop Session

Contribution ID: **44**   Type: **not specified**

Hydrodynamics: state of the art

Saturday, 6 January 2018 14:30 (30 minutes)

Presenter: Dr SHEN, Chun (Brookhaven National Lab)

Session Classification: Workshop Session

Contribution ID: 45　　　　　　　　　　　　　　　　　　　　　　Type: **not specified**

Parameter constraints via emulation and Bayesian analysis

Saturday, 6 January 2018 15:00 (30 minutes)

Presenter:　Mr PRATT, Scott (Michigan State University)

Session Classification:　Workshop Session

Contribution ID: 46   Type: **not specified**

Initial conditions for hydrodynamics from QCD kinetics

Saturday, 6 January 2018 16:00 (30 minutes)

Presenter: TEANEY, Derek (Stony Brook)

Session Classification: Workshop Session

Contribution ID: 47   Type: **not specified**

JETSCAPE: physics modeling challenges and approach

Saturday, 6 January 2018 16:30 (30 minutes)

Presenter: CAO, Shanshan (Wayne State University)

Session Classification: Workshop Session

Contribution ID: **48** Type: **not specified**

JETSCAPE framework

Sunday, 7 January 2018 12:03 (30 minutes)

Presenter: Dr KAUDER, Kolja (Wayne State University)

Session Classification: Workshop Session

Contribution ID: **49**   Type: **not specified**

Lisbon Accord and RIVET

Saturday, 6 January 2018 17:00 (30 minutes)

Presenter: Dr MILHANO, Guilherme

Session Classification: Workshop Session

Contribution ID: **50** Type: **not specified**

Recent results on jet imbalance and suppression in heavy ion collisions with ATLAS

Sunday, 7 January 2018 09:00 (18 minutes)

Presenter: HAVENER, Laura (Columbia University)

Session Classification: Workshop Session

Contribution ID: **51**   Type: **not specified**

Jet evolution with parton virtuality and medium rescattering

Sunday, 7 January 2018 09:18 (18 minutes)

Presenter: CAUCAL, Paul (Saclay)

Session Classification: Workshop Session

Contribution ID: **52**   Type: **not specified**

The role of QCD monopoles in jet quenching

Sunday, 7 January 2018 09:36 (18 minutes)

Presenter: RAMAMURTI, Adith (Stony Brook)

Session Classification: Workshop Session

Contribution ID: **53**   Type: **not specified**

Jet modification within a Linear Boltzmann Transport model

Sunday, 7 January 2018 09:54 (18 minutes)

Presenter: LUO, Tan (CCNU)

Session Classification: Workshop Session

Contribution ID: **54**   Type: **not specified**

Fragmentation functions and their modification

Sunday, 7 January 2018 10:45 (30 minutes)

Presenter: LAI, Yue Shi (UC Berkeley)

Session Classification: Workshop Session

Contribution ID: **55**　　　　　　　　　　　　　　　　　　Type: **not specified**

Hadronization within a medium

Sunday, 7 January 2018 11:33 (30 minutes)

Presenter:　Prof. FRIES, Rainer (Texas A&M University)

Session Classification:　Workshop Session

Contribution ID: **56**   Type: **not specified**

Spin polarization in heavy-ion collisions

Presenter: Prof. WANG, Qun

Contribution ID: **57**

Type: **not specified**

Jet quenching: future experiments and End Game

Sunday, 7 January 2018 12:33 (30 minutes)

Presenter: Prof. VAN LEEUWEN, Marco

Session Classification: Workshop Session

Contribution ID: **58** Type: **not specified**

Welcome and introduction to JETSCAPE Winter School

Wednesday, 3 January 2018 09:00 (10 minutes)

Presenter: Dr JACOBS, Peter (Lawrence Berkeley National Laboratory)

Session Classification: School Session

Contribution ID: **59**   Type: **not specified**

Viscous hydro on GPUs

Friday, 5 January 2018 10:15 (30 minutes)

Presenter: Dr PANG, Longgang (UC Berkeley and LBNL)

Session Classification: School Session

Contribution ID: **60**
Type: **not specified**

Free-streaming as a pre-equilibrium model for use with (3+1)-dimensional hydrodynamical evolution models

Sunday, 7 January 2018 10:12 (18 minutes)

Presenter: EVERETT, Derek (Ohio State)

Session Classification: Workshop Session

Contribution ID: **61**　　　　　　　　　　　　　　　　　　Type: **not specified**

Gamma+jet fragmentation functions and the jet-induced medium response

Sunday, 7 January 2018 11:15 (18 minutes)

Presenter: CHEN, Wei (CCNU)

Session Classification: Workshop Session

Contribution ID: **62**
Type: **not specified**

Workshop introduction

Friday, 5 January 2018 14:00 (5 minutes)

Presenter: Dr JACOBS, Peter (Lawrence Berkeley National Laboratory)

Session Classification: Workshop Session

Contribution ID: **63**   Type: **not specified**

Statistical Methods Material

Thursday, 4 January 2018 15:00 (3 hours)

Presenter: COLEMAN, Jacob (Duke University)

Session Classification: School working session