

Workshop on Pion and Kaon Structure Functions at the EIC



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and Introduction

Tuesday, 2 June 2020 08:00 (15 minutes)

Presenter: DESHPANDE, Abhay (Stony Brook University)

Session Classification: Tuesday morning 1

Contribution ID: 2

Type: **not specified**

Emergence of Pion and Kaon Structure – Introduction

Tuesday, 2 June 2020 08:15 (25 minutes)

Presenter: ROBERTS, Craig (Nanjing University)

Session Classification: Tuesday morning 1

Contribution ID: 3

Type: **not specified**

Pion and Kaon Structure at an EIC – White Paper

Tuesday, 2 June 2020 08:40 (25 minutes)

Presenter: HORN, Tanja (Cath)

Session Classification: Tuesday morning 1

Contribution ID: 4

Type: **not specified**

Pion and Kaon Structure with AMBER @ CERN

Tuesday, 2 June 2020 09:05 (25 minutes)

Presenter: DENISOV, Oleg (INFN Torino)

Session Classification: Tuesday morning 1

Contribution ID: 5

Type: **not specified**

Pion, Kaon and Proton Mass Understanding

Tuesday, 2 June 2020 09:30 (25 minutes)

Presenter: QIU, Jianwei (Jefferson Lab)

Session Classification: Tuesday morning 1

Contribution ID: 6

Type: **not specified**

EIC detector, Simulations, Experimental Possibilities

Tuesday, 2 June 2020 10:15 (25 minutes)

Presenter: FURLETOVA, Yulia (Jefferson Lab)

Session Classification: Tuesday morning 2

Contribution ID: 7

Type: **not specified**

Pion and Kaon structure functions at EIC

Tuesday, 2 June 2020 10:40 (25 minutes)

Presenter: TROTTA, Richard (The Catholic University of America)

Session Classification: Tuesday morning 2

Contribution ID: 8

Type: **not specified**

Pion/kaon structure study using Drell-Yan pair production

Tuesday, 2 June 2020 11:05 (25 minutes)

Presenter: ANDRIEUX, Vincent (UIUC)

Session Classification: Tuesday morning 2

Contribution ID: 9

Type: **not specified**

JAM-3D analysis of pions

Session Classification: Tuesday morning 2

Contribution ID: **10**

Type: **not specified**

Discussion on complementarity of experiments and theoretical methods

Tuesday, 2 June 2020 11:30 (1h 5m)

Presenter: REIMER, Paul E (Argonne National Laboratory)

Session Classification: Tuesday morning 2

Contribution ID: 11

Type: **not specified**

Introduction/Goal of the Day

Session Classification: Wednesday morning 1

Contribution ID: 12

Type: **not specified**

Two Issues concerning the Pion Structure Function

Wednesday, 3 June 2020 08:00 (25 minutes)

Presenter: CHANG, Lei (Nankai U.)

Session Classification: Wednesday morning 1

Contribution ID: 13

Type: **not specified**

Soft-gluon Resummation and the Pion Parton Distribution Function

Wednesday, 3 June 2020 08:25 (25 minutes)

Presenter: VOGELSANG, Werner (Tuebingen Univ., Institute for Theoretical Physics)

Session Classification: Wednesday morning 1

Contribution ID: 14

Type: **not specified**

Pion and Kaon Tagged DIS at JLab 12-GeV

Wednesday, 3 June 2020 08:50 (25 minutes)

Presenter: MONTGOMERY, Rachel (U. Glasgow)

Session Classification: Wednesday morning 1

Contribution ID: 15

Type: **not specified**

Pion Parton Distribution functions

Wednesday, 3 June 2020 09:15 (25 minutes)

Presenter: DING, Minghui (ECT*)

Session Classification: Wednesday morning 1

Contribution ID: 16

Type: **not specified**

Perturbative QCD Analysis in a Fixed-W2 Framework

Wednesday, 3 June 2020 10:25 (25 minutes)

Presenter: LIUTI, simonetta (universoty of virginia)

Session Classification: Wednesday morning 2

Contribution ID: 17

Type: **not specified**

JAM pion PDF analysis including resummation

Wednesday, 3 June 2020 10:50 (25 minutes)

Presenter: BARRY, Patrick (North Carolina State University)

Session Classification: Wednesday morning 2

Contribution ID: **18**

Type: **not specified**

Global PDF fits at high x and perspectives on meson structure at EIC

Wednesday, 3 June 2020 11:15 (25 minutes)

Presenter: HOBBS, Timothy (Southern Methodist University and EIC Center@JLab)

Session Classification: Wednesday morning 2

Contribution ID: **19**

Type: **not specified**

TBA

Session Classification: Wednesday morning 2

Contribution ID: 20

Type: **not specified**

Discussion on Resummation at Large-x

Wednesday, 3 June 2020 11:40 (1h 20m)

Presenters: OLNESS, Fredrick (SMU); NADOLSKY, Pavel (Southern Methodist University)

Session Classification: Wednesday morning 2

Contribution ID: 21

Type: **not specified**

Introduction/Goal of the Day

Session Classification: Thursday morning 1

Contribution ID: 22

Type: **not specified**

Parton Distribution Functions and Beyond

Thursday, 4 June 2020 08:00 (25 minutes)

Presenter: RAYA MONTANO, Khepani (Nankai U.)

Session Classification: Thursday morning 1

Contribution ID: 23

Type: **not specified**

Pion and Kaon Valence quark distributions from lattice QCD

Thursday, 4 June 2020 08:25 (25 minutes)

Presenter: LIN, Huey-Wen (Michigan State University)

Session Classification: Thursday morning 1

Contribution ID: 24

Type: **not specified**

Pion/kaon gluon PDF study in charmonia and prompt photon production

Thursday, 4 June 2020 08:50 (25 minutes)

Presenter: NAIM, Charles-Joseph (Saclay)

Session Classification: Thursday morning 1

Contribution ID: 25

Type: **not specified**

Calculation of Pion/Kaon-Nucleus Induced Drell-Yan Process from a Basis Light Front Approach

Thursday, 4 June 2020 09:15 (25 minutes)

Presenter: ZHAO, Xingbo (IMP Lanzhou)

Session Classification: Thursday morning 1

Contribution ID: 26

Type: **not specified**

TBA

Session Classification: Thursday morning 2

Contribution ID: 27

Type: **not specified**

Structure of Mesons and its Impact on 3D Hadron Structure

Thursday, 4 June 2020 10:50 (25 minutes)

Presenter: MEZRAG, Cédric (CEA Saclay-Irfu/DPhN)

Session Classification: Thursday morning 2

Contribution ID: 28

Type: **not specified**

Exploring pion structure with Minkowski space dynamical model

Thursday, 4 June 2020 11:15 (25 minutes)

Presenter: FREDERICO, Tobias (Instituto Tecnológico de Aeronautica)

Session Classification: Thursday morning 2

Contribution ID: 29

Type: **not specified**

The Pion pdf: the transition from models to dynamical predictions in Minkowski space

Thursday, 4 June 2020 11:40 (25 minutes)

Presenter: SALME, Giovanni (INFN - Sezione di Roma)

Session Classification: Thursday morning 2

Contribution ID: 30

Type: **not specified**

Discussion on PDFs vs PDAs

Thursday, 4 June 2020 12:05 (55 minutes)

Presenter: ROBERTS, Craig (Nanjing University)

Session Classification: Thursday morning 2

Contribution ID: **31**

Type: **not specified**

– Introduction/Goal of the Day

Session Classification: Friday morning 1

Contribution ID: 32

Type: **not specified**

Pion-induced Drell-Yan processes and Impact on Pion TMDs

Friday, 5 June 2020 08:00 (25 minutes)

Presenter: VLADIMIROV , Alexey (Regensburg U)

Session Classification: Friday morning 1

Contribution ID: 33

Type: **not specified**

The transverse structure of the pion in momentum space

Friday, 5 June 2020 08:25 (25 minutes)

Presenter: COTOGNO, Sabrina (ECT Polytechnique)

Session Classification: Friday morning 1

Contribution ID: 34

Type: **not specified**

Spatial and Momentum Imaging of the Pion and Kaon

Friday, 5 June 2020 08:50 (25 minutes)

Presenter: SHI, Chao (Nanjing U.)

Session Classification: Friday morning 1

Contribution ID: 35

Type: **not specified**

LQCD 3D Meson Structure Prospects

Friday, 5 June 2020 09:15 (25 minutes)

Presenters: EGERER, Colin; SUFIAN, Raza

Session Classification: Friday morning 1

Contribution ID: 36

Type: **not specified**

Light meson form factors from exclusive measurements

Friday, 5 June 2020 10:25 (25 minutes)

Presenter: KAY, Stephen (U. Regina)

Session Classification: Friday morning 2

Contribution ID: 37

Type: **not specified**

Pion off-shell electromagnetic form factors

Presenter: BICUDO CABRAL DE MELO , João Pacheco (Universidade Cruzeiro do Sul)

Session Classification: Friday morning 2

Contribution ID: 38

Type: **not specified**

Pion/kaon structure study in Primakoff reactions (polarizability)

Friday, 5 June 2020 10:50 (25 minutes)

Presenter: MALTSEV, Andrei (JINR/Dubna)

Session Classification: Friday morning 2

Contribution ID: 39

Type: **not specified**

Further Prospects for Pion Structure Measurements at EIC

Friday, 5 June 2020 11:15 (25 minutes)

Presenter: KEPPEL, Cynthia (Thomas Jefferson National Accelerator Facility)

Session Classification: Friday morning 2

Contribution ID: 40

Type: **not specified**

Discussion on 3D Meson Structure Prospects

Friday, 5 June 2020 11:40 (1h 20m)

Presenter: SOKHAN, Daria

Session Classification: Friday morning 2

Contribution ID: 42

Type: **not specified**

Pion and Kaon Structure with EICc

Session Classification: Tuesday morning 1

Contribution ID: 43

Type: **not specified**

The structure of Pion and Kaon from First-Principle Calculation in LQCD

Wednesday, 3 June 2020 09:40 (25 minutes)

Presenter: RICHARDS, David (Jefferson Laboratory)

Session Classification: Wednesday morning 1

Contribution ID: 44

Type: **not specified**

Asymmetries in Pion-Induced Drell-Yan with Polarized Protons

Thursday, 4 June 2020 09:40 (25 minutes)

Presenter: BASTAMI, Saman (UConn)

Session Classification: Thursday morning 1

Contribution ID: 46

Type: **not specified**

TBA

Session Classification: Thursday morning 2

Contribution ID: 47

Type: **not specified**

Pion off-shell electromagnetic form factors

Friday, 5 June 2020 09:40 (25 minutes)

Presenter: BICUDO CABRAL DE MELO , João Pacheco (Universidade Cruzeiro do Sul)

Session Classification: Friday morning 1

Contribution ID: 48

Type: **not specified**

Asymmetries in Pion-Induced Drell-Yan with Polarized Protons

Presenter: BASTAMI, Saman (UConn)

Session Classification: Friday morning 2

Contribution ID: 49

Type: **not specified**

Pion and Kaon Parton Distributions from their Light front Wave Functions

Thursday, 4 June 2020 10:25 (25 minutes)

Presenter: RODRIGUEZ QUINTERO , Jose (U de Huelva)

Session Classification: Thursday morning 2