

# Fourth workshop on "Perceiving the Emergence of Hadron Mass through AMBER@CERN" (EHM2020/3)

Perceiving the Emergence  
of Hadron Mass through  
**AMBER@CERN**

**30 November to 4 December 2020**  
**CERN, Geneva - Switzerland**



## Report of Contributions

Contribution ID: 23

Type: **not specified**

## Welcome

*Monday, November 30, 2020 1:30 PM (5 minutes)*

**Presenter:** NOWAK, Wolf-Dieter

**Session Classification:** Session 1

Contribution ID: 24

Type: **not specified**

## **EicC Status, White Paper**

*Monday, November 30, 2020 1:35 PM (35 minutes)*

**Presenter:** XIAO, Bowen

**Session Classification:** Session 1

Contribution ID: 25

Type: **not specified**

## **PANDA Physics**

*Monday, November 30, 2020 2:10 PM (35 minutes)*

**Presenter:** SCHOENNING, Karin

**Session Classification:** Session 1

Contribution ID: 26

Type: **not specified**

## **EIC Status**

*Monday, November 30, 2020 2:45 PM (35 minutes)*

**Presenter:** DESHPANDE, Abhay

**Session Classification:** Session 1

Contribution ID: 27

Type: **not specified**

## **COMPASS++/AMBER Phase I/II Physics**

*Monday, November 30, 2020 3:40 PM (35 minutes)*

**Presenter:** QUINTANS, Catarina

**Session Classification:** Session 1

Contribution ID: 28

Type: **not specified**

## **EHM in the EIC Yellow Report, Synergy JLab-EIC-COMPASS++/AMBER**

*Monday, November 30, 2020 4:15 PM (35 minutes)*

**Presenters:** ENT, Rolf; HORN, Tanja

**Session Classification:** Session 1

Contribution ID: 29

Type: **not specified**

## **Discussion: Outlook for experimental access to EHM**

*Monday, November 30, 2020 4:50 PM (30 minutes)*

**Presenter:** DENISOV, Oleg (INFN, sezione di Torino)

**Session Classification:** Session 1



Contribution ID: **30**

Type: **not specified**

## **ChPT relation to the EHM**

*Tuesday, December 1, 2020 1:30 PM (25 minutes)*

**Presenter:** RUIZ DE ELVIRA, Jacobo

**Session Classification:** Session 2

Contribution ID: 31

Type: **not specified**

## **Role of pion and kaon PDFs in quantifying EHM**

*Tuesday, December 1, 2020 1:55 PM (25 minutes)*

**Presenter:** BINOSI, Daniele

**Session Classification:** Session 2

Contribution ID: 32

Type: **not specified**

## **Role of meson spectroscopy in unfolding the character of EHM in the SM**

*Tuesday, December 1, 2020 2:20 PM (25 minutes)*

**Presenter:** QIN, Sixue

**Session Classification:** Session 2

Contribution ID: 33

Type: **not specified**

## **Role of near-threshold heavy-quarkonia production in providing access to QCD trace anomaly**

*Tuesday, December 1, 2020 3:10 PM (25 minutes)*

**Presenter:** KREIN, Gastão

**Session Classification:** Session 2

Contribution ID: 34

Type: **not specified**

## **Quark and gluon distributions in mesons from quarkonium production**

*Tuesday, December 1, 2020 3:35 PM (25 minutes)*

**Presenter:** PENG, Jen-Chieh

**Session Classification:** Session 2

Contribution ID: 35

Type: **not specified**

## **Further prospects for pion structure measurements at EIC**

*Tuesday, December 1, 2020 4:00 PM (25 minutes)*

**Presenter:** KEPPEL, Cynthia

**Session Classification:** Session 2

Contribution ID: 36

Type: **not specified**

## Discussion

*Tuesday, December 1, 2020 4:25 PM (35 minutes)*

**Presenter:** ROBERTS, Craig (Nanjing University)

**Session Classification:** Session 2

Contribution ID: 37

Type: **not specified**

## **Access to meson PDAs from AMBER**

*Wednesday, December 2, 2020 1:30 PM (25 minutes)*

**Presenter:** ROBERTS, Craig (Nanjing University)

**Session Classification:** Session 3



Contribution ID: **38**

Type: **not specified**

## **IQCD and Pion and Kaon DAs, LaMET**

*Wednesday, December 2, 2020 1:55 PM (25 minutes)*

**Presenter:** ZHANG, Rui

**Session Classification:** Session 3

Contribution ID: **39**

Type: **not specified**

## **Pion GTMDs**

*Wednesday, December 2, 2020 2:20 PM (25 minutes)*

**Presenter:** ZHANG, Jin-Li

**Session Classification:** Session 3

Contribution ID: 40

Type: **not specified**

## **Lattice parton distribs and global QCD analysis**

*Wednesday, December 2, 2020 3:10 PM (25 minutes)*

**Presenter:** SATO, Nobuo

**Session Classification:** Session 3

Contribution ID: 41

Type: **not specified**

## **Pion and Kaon GPDs**

*Wednesday, December 2, 2020 3:35 PM (25 minutes)*

**Presenter:** RODRIGUEZ QUINTERO, José

**Session Classification:** Session 3

Contribution ID: 42

Type: **not specified**

## **Large-x: testing the nonperturbative pion structure through phenomenology**

*Wednesday, December 2, 2020 4:00 PM (25 minutes)*

**Presenter:** COURTOY, Aurore

**Session Classification:** Session 3

Contribution ID: 43

Type: **not specified**

## Discussion

*Wednesday, December 2, 2020 4:25 PM (35 minutes)*

**Presenter:** PLATCHKOV, Stephane (Université Paris-Saclay (FR))

**Session Classification:** Session 3

Contribution ID: 44

Type: **not specified**

## **Diquark correlations and where to find them**

*Thursday, December 3, 2020 1:30 PM (25 minutes)*

**Presenter:** SEGOVIA, Jorge

**Session Classification:** Session 4

Contribution ID: 45

Type: **not specified**

## **DAs and DFs of diquark correlations**

*Thursday, December 3, 2020 1:55 PM (25 minutes)*

**Presenter:** DING, Minghui

**Session Classification:** Session 4



Contribution ID: 46

Type: **not specified**

## **Investigation of the nucleon structure with single pion SIDIS with CLAS12 at JLab**

*Thursday, December 3, 2020 2:20 PM (25 minutes)*

**Presenter:** DIEHL, Stefan

**Session Classification:** Session 4

Contribution ID: 47

Type: **not specified**

## BLFQM

*Thursday, December 3, 2020 3:10 PM (25 minutes)*

**Presenter:** ZHAO, Xingbo

**Session Classification:** Session 4

Contribution ID: 48

Type: **not specified**

## **Global analysis of TMD PDFs at NLO and NNLL in QCD**

*Thursday, December 3, 2020 3:35 PM (25 minutes)*

**Presenter:** TERRY, John

**Session Classification:** Session 4

Contribution ID: 49

Type: **not specified**

## **Kaon structure in nuclear medium**

*Thursday, December 3, 2020 4:00 PM (25 minutes)*

**Presenter:** DE MELO, J.P.B.C.

**Session Classification:** Session 4

Contribution ID: 50

Type: **not specified**

## Discussion

*Thursday, December 3, 2020 4:25 PM (35 minutes)*

**Presenter:** MOKEEV, Victor

**Session Classification:** Session 4

Contribution ID: 51

Type: **not specified**

## **Pion and kaon distribution functions with the maximum entropy input**

*Friday, December 4, 2020 1:30 PM (25 minutes)*

**Presenter:** WANG, Rong

**Session Classification:** Session 5

Contribution ID: 52

Type: **not specified**

## **xFitter**

*Friday, December 4, 2020 1:55 PM (25 minutes)*

**Presenter:** OLNESS, Fred

**Session Classification:** Session 5

Contribution ID: 53

Type: **not specified**

## **Pion and Kaon distrib functions in QCD instanton vacuum**

*Friday, December 4, 2020 2:20 PM (25 minutes)*

**Presenter:** ZAHED, Ismail

**Session Classification:** Session 5



Contribution ID: 54

Type: **not specified**

## **EHM from baryon structure studies with electromagnetic probes**

*Friday, December 4, 2020 3:10 PM (25 minutes)*

**Presenter:** MOKEEV, Victor

**Session Classification:** Session 5

Contribution ID: 55

Type: **not specified**

## Discussion

*Friday, December 4, 2020 3:35 PM (45 minutes)*

**Presenters:** QUINTANS, Catarina (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part); ROBERTS, Craig; FRIEDRICH, Jan (Technische Universitaet Muenchen (DE)); DENISOV, Oleg (INFN, sezione di Torino); NOWAK, Wolf-Dieter (Johannes Gutenberg Universitaet Mainz (DE))

**Session Classification:** Session 5