# Fifth workshop on "Perceiving the Emergence of Hadron Mass through AMBER@CERN" (EHM2021/9)



### Report of Contributions

Fifth workshop · · · / Report of Contributions

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

#### Introductory talk

Wednesday, 21 April 2021 14:00 (5 minutes)

Introductory talk

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

Session Classification: Day I - Introduction

Contribution ID: 8 Type: not specified

#### **Probing EHM with AMBER**

Wednesday, 21 April 2021 14:05 (35 minutes)

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

Session Classification: Day I - Introduction

Contribution ID: 9 Type: not specified

#### Charged proton-radius measurement

Wednesday, 21 April 2021 14:40 (25 minutes)

Presenter: DZIUBA, Aleksei (NRC Kurchatov Institute PNPI (RU))

Session Classification: Approved measurements

Contribution ID: 10 Type: not specified

## Antiproton cross-section measurements for Dark Matter search

Wednesday, 21 April 2021 15:05 (20 minutes)

**Presenter:** ZUCCON, Paolo (Universita degli Studi di Trento and INFN (IT))

Session Classification: Approved measurements

Contribution ID: 11 Type: not specified

#### Probing the pion's parton structure at AMBER

Wednesday, 21 April 2021 15:25 (25 minutes)

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

Session Classification: Approved measurements

Contribution ID: 12 Type: not specified

## Probing the kaon's parton structure at AMBER Phase-2

Wednesday, 21 April 2021 16:00 (30 minutes)

Presenter: ANDRIEUX, Vincent (Univ. Illinois at Urbana Champaign (US))

Session Classification: Envisaged measurements

Contribution ID: 13 Type: not specified

## Measuring excitacion spectra in K pi pi final states with AMBER Phase-2

Wednesday, 21 April 2021 16:30 (25 minutes)

**Presenter:** GRUBE, Boris (Technische Universitaet Muenchen (DE))

Session Classification: Envisaged measurements

Contribution ID: 14 Type: not specified

## Measuring the Primakoff reaction and F\_{K2pi} with AMBER phase-II

Wednesday, 21 April 2021 16:55 (20 minutes)

Presenter: MALTSEV, Andrii (Joint Institute for Nuclear Research (RU))

Session Classification: Envisaged measurements

Contribution ID: 15 Type: not specified

## Can AMBER Phase-2 access the charge radius of pion or/and kaon?

Wednesday, 21 April 2021 17:15 (15 minutes)

**Presenter:** FRIEDRICH, Jan (Technische Universitaet Muenchen (DE))

Session Classification: Day I -

Contribution ID: 16 Type: not specified

# Can AMBER Phase-2 access Moments of pion/kaon Distribution Amplitudes in Diffractive Scattering?

Wednesday, 21 April 2021 17:30 (15 minutes)

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

Session Classification: Day I -

Contribution ID: 17 Type: not specified

#### **Lattice QCD for AMBER**

Thursday, 22 April 2021 14:00 (35 minutes)

**Presenter:** RICHARDS, David (Jefferson Lab)

Session Classification: Day II

Contribution ID: 18 Type: not specified

#### **Meson DFs from Lattice QCD**

Thursday, 22 April 2021 14:35 (25 minutes)

Presenter: KARTHIK, Nikhil (Brookhaven National Laboratory)

Session Classification: Day II

Pion DAs in AMBER

Contribution ID: 19 Type: not specified

#### **Pion DAs in AMBER**

Friday, 23 April 2021 16:25 (25 minutes)

Presenter: STEFANIS, Nikolaos (Ruhr University Bochum, Germany)

Session Classification: Day III

Contribution ID: 20 Type: not specified

#### **EHM via Meson GPDs**

Thursday, 22 April 2021 15:25 (25 minutes)

**Presenter:** MORGADO CHÁVEZ, Jose Manuel (Universidad de Huelva)

Session Classification: Day II

Contribution ID: 21 Type: not specified

#### **Basic EHM from Lattice QCD**

Thursday, 22 April 2021 16:00 (25 minutes)

Presenter: SKULLERUD, Jon-Ivar (National University of Ireland Maynooth)

Session Classification: Day II -

Contribution ID: 22 Type: not specified

#### Pion structure as a problem in Minkowski space

Thursday, 22 April 2021 16:25 (25 minutes)

Presenter: YDREFORS, Emanuel (Instituto Tecnologico de Aeronautica)

Session Classification: Day II -

Contribution ID: 23 Type: not specified

#### **Basis light-front quantisation**

Thursday, 22 April 2021 16:50 (25 minutes)

Presenter: ZHAO, Xingbo (Institute of Modern Physics, Chinese Academy of Sciences)

Session Classification: Day II -

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Discussion

Contribution ID: 24 Type: not specified

#### Discussion

Thursday, 22 April 2021 17:15 (30 minutes)

Session Classification: Day II -

Contribution ID: 25 Type: not specified

#### **NNPDFs** for meson structure

Friday, 23 April 2021 14:00 (35 minutes)

Presenter: Dr ROJO, Juan (VU Amsterdam and Nikhef)

Session Classification: Day III

Contribution ID: 27 Type: not specified

# Accessing pion's large-x gluon by fixed-target charmonium production

Friday, 23 April 2021 14:35 (25 minutes)

Presenter: CHANG, Wen-Chen (Academia Sinica (TW))

Session Classification: Day III

Contribution ID: 28 Type: not specified

#### EHM via meson light-front wave functions - Part 1

Friday, 23 April 2021 15:00 (25 minutes)

**Presenter:** RAYA MONTAÑO, Khépani

Session Classification: Day III

Contribution ID: 29 Type: not specified

#### EHM via meson light-front wave functions - Part 2

Friday, 23 April 2021 15:25 (25 minutes)

Presenter: RODRIGUEZ QUINTERO, José (University of Huelva)

Session Classification: Day III

Contribution ID: 30 Type: not specified

# High-energy factorization for DY with new TMD (unintegrated) PDFs

Thursday, 22 April 2021 15:00 (25 minutes)

**Presenter:** Dr NEFEDOV, Maxim (Samara State University)

Session Classification: Day II

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Discussion

Contribution ID: 31 Type: not specified

#### Discussion

Friday, 23 April 2021 16:50 (30 minutes)

Session Classification: Day III

Contribution ID: 32 Type: not specified

#### EHM and the spectrum of light mesons

Presenter: CHANG, Lei (Nankai University)

Session Classification: Day IV

Contribution ID: 33 Type: not specified

# EHM as revealed by the spectra of baryons with heavy quarks

**Presenter:** SEGOVIA, Jorge (Pablo de Olavide U., Seville)

Session Classification: Day IV

Contribution ID: 34 Type: not specified

#### Synergies with EHM at Jlab

**Presenter:** MOKEEV, Victor (Thomas Jefferson National Accelerator Facility)

Session Classification: Day IV

Contribution ID: 35 Type: not specified

#### Model independent extraction of hadron radii

Friday, 23 April 2021 16:00 (25 minutes)

**Presenter:** BINOSI, Daniele (ECT\* Fondazione Bruno Kessler)

Session Classification: Day III

Contribution ID: 36 Type: not specified

#### Round-table discussion

Wolf-Dieter Nowak / Craig Roberts Stephane Platchkov Vincent Andrieux Andrii Maltsev Boris Grube Jan Friedrich Oleg Denisov ... and all other participants

**Session Classification:** Day IV - Round table