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

Wednesday, 21 April 2021 - Friday, 30 April 2021

Book of Abstracts
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Introductory talk

Corresponding Author: oleg.denisov@cern.ch

Probing EHM with AMBER

Corresponding Author: cdroberts@nju.edu.cn

Charged proton-radius measurement

Corresponding Author: alexey.dzyuba@cern.ch

Antiproton cross-section measurements for Dark Matter search

Corresponding Author: paolo.zuccon@cern.ch

Probing the pion’s parton structure at AMBER

Corresponding Author: stephane.platchkov@cern.ch

Probing the kaon’s parton structure at AMBER Phase-2

Corresponding Author: vincent.andrieux@cern.ch

Measuring excitacion spectra in K pi pi final states with AMBER Phase-2
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Measuring the Primakoff reaction and $F_{\pi K\pi}$ with AMBER phase-II

Corresponding Author: andrii.maltsev@cern.ch

Day I / 15

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

Corresponding Author: jan@tum.de

Day I / 16

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

Corresponding Author: oleg.denisov@cern.ch

Day II / 17

Lattice QCD for AMBER

Corresponding Author: dgr@jlab.org

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Meson DFs from Lattice QCD

Corresponding Author: nkarthik@bnl.gov

Day III / 19

Pion DAs in AMBER

Corresponding Author: stefanis@tp2.ruhr-uni-bochum.de
Day II / 20

**EHM via Meson GPDs**

*Corresponding Author:* josemanuel.morgado@dci.uhu.es

Day II - / 21

**Basic EHM from Lattice QCD**

*Corresponding Author:* jonivar@thphys.nuim.ie

Day II - / 22

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

*Corresponding Author:* ydrefors@kth.se

Day II - / 23

**Basis light-front quantisation**

*Corresponding Author:* xbzhao@impcas.ac.cn

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**Discussion**

Day III / 25

**NNPDFs for meson structure**

*Corresponding Author:* j.rojo@vu.nl

Day III / 27

**Accessing pion’s large-x gluon by fixed-target charmonium production**

*Corresponding Author:* wen-chen.chang@cern.ch
Day III / 28

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

Corresponding Author: khepani@gmail.com

Day III / 29

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

Corresponding Author: jose.rodriguez@dfaie.uhu.es

Day II / 30

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

Corresponding Author: nefedovma@gmail.com

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**Discussion**

Day IV / 32

**EHM and the spectrum of light mesons**

Corresponding Author: lei.chiong@gmail.com

Day IV / 33

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

Corresponding Author: jsegovia@upo.es

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**Synergies with EHM at Jlab**

Corresponding Author: mokeev@jlab.org
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Model independent extraction of hadron radii

Corresponding Author: binosi@ectstar.eu

Day IV - Round table / 36

Round-table discussion

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