First workshop on ”Perceiving the Emergence of Hadron Mass through AMBER@CERN” (EHM2020/1)

Monday, 30 March 2020 - Thursday, 2 April 2020

Book of Abstracts
## Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the workshop</td>
<td>1</td>
</tr>
<tr>
<td>Measurable Expressions of EHM</td>
<td>1</td>
</tr>
<tr>
<td>On the hadron mass decomposition</td>
<td>1</td>
</tr>
<tr>
<td>Meson Structure: Drell-Yan session</td>
<td>1</td>
</tr>
<tr>
<td>Drell-Yan measurement at AMBER - Studying the hadrons structure</td>
<td>1</td>
</tr>
<tr>
<td>Pion parton distribution functions in a symmetry-preserving approach</td>
<td>1</td>
</tr>
<tr>
<td>Pion and Kaon Valence-Quark Parton Distributions from Lattice QCD</td>
<td>1</td>
</tr>
<tr>
<td>Structure of Mesons and its impact on Baryons one</td>
<td>1</td>
</tr>
<tr>
<td>Pion structure in Nambu–Jona-Lasinio: phenomenology</td>
<td>2</td>
</tr>
<tr>
<td>Parton distribution functions and beyond</td>
<td>2</td>
</tr>
<tr>
<td>Pion and Kaon parton distributions from their light-front wave functions</td>
<td>2</td>
</tr>
<tr>
<td>The structure of pion from first-principles calculation in lattice QCD</td>
<td>2</td>
</tr>
<tr>
<td>3D imaging of pion and kaon on the light front</td>
<td>2</td>
</tr>
<tr>
<td>Calculation of pion/kaon-nucleus induced Drell-Yan process from a basis light-front approach</td>
<td>2</td>
</tr>
<tr>
<td>Charmonium measurements with AMBER – a tool for accessing the meson PDFs</td>
<td>3</td>
</tr>
<tr>
<td>Constraining pion PDFs with Jpsi production</td>
<td>3</td>
</tr>
<tr>
<td>Quark mass function from a OGE-type interaction in Minkowski space</td>
<td>3</td>
</tr>
<tr>
<td>Prompt photon production and diffractive scattering at AMBER</td>
<td>3</td>
</tr>
<tr>
<td>Hadron Spectroscopy at AMBER</td>
<td>3</td>
</tr>
<tr>
<td>Spectroscopy via Lattice QCD</td>
<td>3</td>
</tr>
<tr>
<td>An Experimental Observable to Trace the Mass from pQCD to Strong QCD</td>
<td>4</td>
</tr>
<tr>
<td>Insight into EHM from Nucleon Resonance Electroexcitation and the Meson Structure Studies</td>
<td>4</td>
</tr>
</tbody>
</table>
Introduction to the workshop

Measurable Expressions of EHM

On the hadron mass decomposition

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Meson Structure: Drell-Yan session

Drell-Yan measurement at AMBER - Studying the hadrons structure

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Pion parton distribution functions in a symmetry-preserving approach

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Pion and Kaon Valence-Quark Parton Distributions from Lattice QCD

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Afternoon session / 13

Structure of Mesons and its impact on Baryons one

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Afternoon session / 14

Pion structure in Nambu–Jona-Lasinio: phenomenology

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Afternoon session / 15

Parton distribution functions and beyond

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Afternoon session / 16

Pion and Kaon parton distributions from their light-front wave functions

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Afternoon session / 17

The structure of pion from first-principles calculation in lattice QCD

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Afternoon session / 18

3D imaging of pion and kaon on the light front

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Afternoon session / 19

Calculation of pion/kaon-nucleus induced Drell-Yan process from a basis light-front approach
Charmonium measurements with AMBER – a tool for accessing the meson PDFs

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Constraining pion PDFs with Jpsi production

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Quark mass function from a OGE-type interaction in Minkowski space

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Prompt photon production and diffractive scattering at AMBER

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Hadron Spectroscopy at AMBER

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Spectroscopy via Lattice QCD

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Afternoon session / 26

An Experimental Observable to Trace the Mass from pQCD to Strong QCD

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Afternoon session / 27

Insight into EHM from Nucleon Resonance Electroexcitation and the Meson Structure Studies

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Afternoon session / 28

Continuum functional methods to study strong-QCD in new generation facilities

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Afternoon session / 29

Meson Spectroscopy

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Afternoon session / 30

Parton distribution of nucleon

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Afternoon session / 31

talk

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Afternoon session / 32

Introduction to round table discussion
Afternoon session / 33

Round table discussion

Afternoon session / 34

Future plans

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Afternoon session / 35

Hybrid mesons in the framework of DSEs

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Afternoon session / 36

Meson spectroscopy from a basis light-front approach

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Afternoon session / 37

talk

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Afternoon session / 38

Power corrections to the Drell-Yan and Charmonium qT−spectra at moderate transverse momenta from Reggeized Partons

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Afternoon session / 39
Two issues concerning the pion structure function

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