CONFERENCE PROGRAMME
The Proton Mass: At the Heart of Most Visible Matter

09:20-9:30 Welcome

Monday April 03, 2017 (Morning)

Introductory Session
Chair: Marc Vanderhaeghen

09:30-10:15 How to test the mass decomposition? Jianwei Qiu 35'+10'

10:15-11:00 Impacts of dynamical chiral symmetry breaking on hadron masses Ian Cloët 35'+10'

11:00-11:20 Coffee Break

11:20-12:05 The composition of the proton mass from light-front holography and superconformal algebra Stan Brodsky 35'+10'

12:05-12:50 Superconformal and supersymmetric constraints on hadron masses in light-front holographic QCD Guy de Teramond 35'+10'

12:50-13:00 Discussion 10'

13:00-14:30 Lunch Break

Monday April 03, 2017 (Afternoon)

Models of QCD and the mass of hadrons
Chair: Bob Jaffe

14:30-15:10 Dynamical origin of the proton mass Xiangdong Ji 30'+10'

15:10-15:50 The dynamics of the gluon mass Joannis Papavassiliou 30'+10'

15:50-16:30 The QCD effective charge Daniele Binosi 30'+10'

16:30-17:00 Coffee Break

17:00-17:40 Proton mass decomposition Yi-Bo Yang 30'+10'

17:40-18:00 Discussion 20'

18:00 Adjourn
Hadron mass decomposition calculations  

Chair: Barbara Pasquini

09:00-9:45  Longitudinal and transverse spin-orbit correlations  Cédric Lorcé  35’+10’
9:45-10:30  Quark’s angular momentum densities in position space  Luca Mantovani  35’+10’

10:30-11:00  Coffee Break

11:00-11:45  Hadron charges and currents, and the contribution of excited states  David Richards  35’+10’
11:45-12:30  Proton without confinement  Pietro Faccioli  35’+10’

12:30-13:00  Discussion  30’
13:00-14:30  Lunch break

Experimental/ Threshold J/Psi  

Chair: Kawtar Hafidi

14:30-15:00  Early results from the GlueX experiment  Eugene Chudakov  25’+05’
15:00-15:30  J/psi at threshold at JLab (Hall A,B)  Jian-Ping Chen  25’+05’
15:30-16:00  Accessing the real part of the amplitudes of the forward scatterings of J/psi and phi mesons off the proton from photoproduction on proton around threshold  Oleksii Gryniuk  25’+05’

16:00-16:30  Coffee Break

16:30-17:00  Quarkonium nucleus bound states with lattice  Huey-Wen Lin  25’+05’
17:00-17:30  Novel Physics with Tensor Polarized Target  Karl Slifer  25’+05’
17:30-18:00  Discussion  30’
18:00  Adjourn
**Wednesday April 05, 2017 (Morning)**

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Duration</th>
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<tbody>
<tr>
<td>09:00-9:45</td>
<td>Perspective on the origin of hadron masses</td>
<td>Craig Roberts</td>
<td>35'+10'</td>
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<td>9:45-10:30</td>
<td>Bound states in perturbation theory</td>
<td>Paul Hoyer</td>
<td>35'+10'</td>
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<td>10:30-10:50</td>
<td>Discussion</td>
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<td>20'</td>
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<td>10:50-11:20</td>
<td>Coffee Break</td>
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<td>11:20-12:05</td>
<td>QCD at the heart of the Standard Model</td>
<td>Piet Mulders</td>
<td>35'+10'</td>
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<td>12:05-12:45</td>
<td>Nucleon quark content from lattice QCD</td>
<td>Christian Hoelbling</td>
<td>35'+05'</td>
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<td>12:45-13:00</td>
<td>Discussion</td>
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<td>15'</td>
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<td>13:00-14:30</td>
<td>Lunch break</td>
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**Wednesday April 05, 2017 (Afternoon)**

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<tr>
<td>14:30-15:15</td>
<td>Probing the origin of the proton mass with heavy quarkonium</td>
<td>Dima Kharzeev</td>
<td>35'+10'</td>
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<td>15:15-16:00</td>
<td>Quark and spin content of the nucleon</td>
<td>Constantia Alexandrou</td>
<td>35'+10'</td>
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<td>16:00-16:35</td>
<td>Quark-Gluon Correlations in the Nucleon</td>
<td>Matthias Burkardt</td>
<td>30'+05'</td>
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<td>16:35-17:00</td>
<td>Coffee break</td>
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<td>17:00-17:40</td>
<td>Origin of nucleon mass in lattice QCD</td>
<td>Keh-Fei Liu</td>
<td>30'+05'</td>
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<td>17:40-18:00</td>
<td>Discussion</td>
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<td>18:00</td>
<td>Adjourn</td>
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Thursday April 06, 2017 (Morning)

Quark Masses Contribution

Chair: Mauro Anselmino

09:00-9:45 Impact of proton structure on the proton-neutron mass difference and the (muonic-) hydrogen spectrum

Vladimir Pascalutsa 35'+10'

9:45-10:30 Sigma terms in ChEFT

Jose M. Alarcon 35'+10'

10:30-10:50 Discussion

20'

10:50-11:20 Coffee Break

11:20-12:05 Lattice on quark masses

Huey-Wen Li 35'+10'

12:05-12:45 Sigma-term determination from Roy-Steiner equations.

Jacobo de Elvira 35'+05'

12:45-13:00 Discussion

15'

13:00-14:30 Lunch break

THURSDAY APRIL 06, 2017 (Afternoon)

Experiments/Pentaquarks

Chair: Jian-Ping Chen

14:30-15:10 J/psi and upsilon production at threshold at the EIC

Abhay Deshpande 30'+10'

15:10-15:40 LHCb pentaquark

TBD 30'+10'

15:40-16:00 Discussion

20'

16:00-16:30 Coffee Break

16:30-17:05 Deuteron Energy Momentum Tensor and Gluonometry

Simonetta Liuti 30'+05'

17:05-17:40 LHCb pentaquark search in direct photoproduction at JLab

Sylvester Joosten 30'+05'

17:40-18:00 Discussion

20'

18:00 Adjourn

20:00 Social dinner

Restaurant Orso de Grigio
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<tbody>
<tr>
<td>09:00-9:45</td>
<td>Theory Summary</td>
<td>Barbara Pasquini/Marc Vanderhaeghen</td>
<td>35'+10'</td>
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<td>9:45-10:30</td>
<td>Summary Experimental</td>
<td>Zein-Eddine Meziani</td>
<td>35'+10'</td>
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<td>10:30-11:00</td>
<td>Discussion</td>
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<td>30'</td>
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<td>11:00-11:30</td>
<td>Coffee Break</td>
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<td>11:30-12:30</td>
<td>Discussion &amp; Plans for a white paper</td>
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<td>12:45-14:30</td>
<td>Lunch &amp; Adjourn</td>
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