Exposing Novel Quark and Gluon Effects in Nuclei
ECT* workshop program, 16–20 April 2018

Monday

09:00 – 09:30 Registration
09:45 – 10:00 ECT* Director’s Welcome – Prof. J. Wambach

Chair: Seamus Riordan  
Talks 35+10 mins

10:00 – 10:45 Recent and Future Measurements of the EMC Effect with Inclusive Electron Scattering  
David Gaskell

10:45 – 11:15 Coffee

11:15 – 12:00 High-x opportunities at a fixed target experiment using the LHC beams (AFTERLHC)  
Ingo Schienbein

12:00 – 13:30 Lunch

Chair: Whitney Armstrong  
Talks 35+10 mins

13:30 – 14:15 Gluon structure of nuclei from lattice QCD  
Phiala Shanahan

14:15 – 15:00 Nuclear Parton Distributions from nCTEQ  
Cynthia Keppel

15:00 – 15:30 Coffee

15:30 – 16:15 3D Partonic Structure of Nucleons and Nuclei  
Mohammad Hattawy

16:15 – 17:00 Fitting nPDFs: strategies and results  
Maria Zurita

Chair: Raphaël Dupré

17:00 – 17:30 Discussion

Tuesday

Chair: Nadia Fomin  
Talks 35+10 mins

09:15 – 10:00 Studying the Isovector EMC Effect with Parity Violating Electron Scattering  
Seamus Riordan

10:00 – 10:30 Coffee

10:30 – 11:15 Dimuon Production and Nuclear Effects  
Stephane Platchkov

11:15 – 12:00 TBA  
Paul Reimer

12:00 – 13:30 Lunch

Chair: Raphaël Dupré  
Talks 35+10 mins

13:30 – 14:15 TBA  
William Brooks

14:15 – 15:00 Quark structure of nuclei  
William Detmold

15:00 – 15:30 Coffee

15:30 – 16:15 Spin physics with a polarized deuteron  
Mohammad Hattawy

16:15 – 16:45 Hadronization at EIC: Looking at heavy quarks  
Mathieu Ehrhart

Chair: Paul Reimer

16:45 – 17:15 Discussion

Wednesday

Chair: Ian Cloët  
Talks 35+10 mins

09:15 – 10:00 The QCD Energy Momentum Tensor in Nucleons and Nuclei  
Simonetta Luiti

10:00 – 10:30 Coffee

10:30 – 11:15 TBA  
Raphaël Dupré

11:15 – 12:00 A covariant calculation of deuteron GPDs  
Adam Freese

12:00 – 13:30 Lunch
Thursday

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tr>
<td>09:15</td>
<td>Previously, on Short-Range Correlations experiments</td>
<td>Nadia Fomin</td>
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<td>10:00</td>
<td><strong>Coffee</strong></td>
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<td>10:30</td>
<td>EMC effect in 2018</td>
<td>Gerald Miller</td>
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<td>11:15</td>
<td>Flavor Dependence of Nuclear Modifications</td>
<td>Misak Sargsian</td>
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<td><strong>Lunch</strong></td>
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<td>13:30</td>
<td>TBA</td>
<td>John Arrington</td>
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<td>14:15</td>
<td>From Nuclei to neutron stars: starting at the quark level</td>
<td>Anthony Thomas</td>
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<td>15:00</td>
<td><strong>Coffee</strong></td>
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<td>15:30</td>
<td>A Poincaré covariant light-front spectral function for the study of nuclear structure</td>
<td>Emanuele Pace</td>
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<td>16:15</td>
<td>TBA</td>
<td>Whitney Armstrong</td>
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<td>17:00</td>
<td><strong>Discussion</strong></td>
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Friday

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<th>Time</th>
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<tr>
<td>09:30</td>
<td>Nuclear generalized parton distributions and DVCS off Helium nuclei</td>
<td>Sergio Scopetta</td>
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<td>10:15</td>
<td><strong>Coffee</strong></td>
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<td>10:45</td>
<td>From the Coulomb Sum Rule to the EMC effect</td>
<td>Ian Cloët</td>
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<td>11:30</td>
<td><strong>Discussion &amp; Close</strong></td>
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<td>12:00</td>
<td><strong>Lunch</strong></td>
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