WORKSHOP PROGRAM
The 2019 DAMIC-M Collaboration Meeting will be held on July 8-12 in Paris, France:

**July 8-9, 2019**
The University of Chicago Center in Paris

**July 10-12, 2019**
Laboratoire de Physique Nucléaire et de Hautes Energies (LPNHE).

### Organizing Committee

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<tbody>
<tr>
<td>Antoine Letessier-Selvon</td>
<td>Paolo Privitera</td>
<td>Radomir Smida</td>
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<tr>
<td>LPNHE</td>
<td>University of Chicago</td>
<td>University of Chicago</td>
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Monday - July 8, 2019

9:00 AM - 9:15 AM  WELCOME  
Antoine Letessier-Selvon, Paolo Privitera

9:00 AM - 9:15 AM  Paolo Privitera, University of Chicago  
Welcome and Information

9:15 AM - 4:15 PM  DETECTOR  
Alvaro Chavarria

9:15 AM - 9:20 AM  Alvaro Chavarria, University of Washington  
Introduction

9:20 AM - 9:50 AM  Pitam Mitra, University of Washington  
CCD Packaging

9:50 AM - 10:15 AM  Pitam Mitra, University of Washington  
CCD Characterization

10:15 AM - 10:35 AM  Radomir Smida, University of Chicago  
CCD fabrication status and timeline

10:35 AM - 11:05 AM  --- Coffee break ---

11:05 AM - 11:15 AM  Alvaro Chavarria, University of Washington  
Discussion about CCD fabrication

11:15 AM - 11:35 AM  Alvaro Chavarria, University of Washington  
Detector Core Report

11:35 AM - 12:05 PM  Arnaud Cadiou, Subatech/in2p3  
Cryostat

12:05 PM - 12:30 PM  Todd Hossbach, PNNL  
Cryostat, electroformed copper

12:30 PM - 1:30 PM  --- Lunch ---

1:30 PM - 2:00 PM  Alvaro Chavarria, University of Washington  
Discussion

2:00 PM - 2:20 PM  Ben Kilminster, University of Zurich  
Slow control

2:20 PM - 2:45 PM  Steven J. Lee, University of Zurich  
Calibration system

2:45 PM - 3:15 PM  Pia Loaiza, LAL, CNRS/Université Paris Saclay  
Shielding

3:15 PM - 3:45 PM  --- Coffee break ---

3:45 PM - 4:15 PM  Alvaro Chavarria, University of Washington  
Discussion

4:15 PM - 5:30 PM  LOW BACKGROUND  
Dan Baxter, Cedric Cerna, Isaac Arnquist

4:15 PM - 4:35 PM  Cedric Cerna, CENBG - CNRS  
Cable Option A: Axon pico-coax
4:35 PM - 4:55 PM  Isaac Arnquist, PNNL  
       *Cable Option B: Kapton*

4:55 PM - 5:30 PM  Dan Baxter, University of Chicago  
       *Discussion*

6:30 PM - 8:30 PM  RECEPTION
## Tuesday - July 9, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 AM - 12:30 PM</td>
<td><strong>DATA &amp; SIMULATIONS</strong> &lt;br&gt; <em>Mariangela Settimo</em></td>
</tr>
<tr>
<td>9:00 AM - 9:10 AM</td>
<td><em>Mariangela Settimo</em>, SUBATECH, CNRS-IN2P3 &lt;br&gt; Introduction</td>
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<td>9:10 AM - 9:30 AM</td>
<td><em>Joao Miguel Da Rocha</em>, LPNHE &lt;br&gt; <em>Simulation experience in DAMIC®SNOLAB</em></td>
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<td>9:30 AM - 9:50 AM</td>
<td><em>Nuria Castello-Mor</em>, IFCA &lt;br&gt; <em>DAMIC-M Geant4 simulation: software status</em></td>
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<tr>
<td>9:50 AM - 10:10 AM</td>
<td><em>Ariel Y Matalon</em>, University of Chicago and LPNHE &lt;br&gt; <em>1x100 Coincidence Analyses</em></td>
</tr>
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<td>10:10 AM - 10:30 AM</td>
<td><em>Nuria Castello-Mor</em>, IFCA &lt;br&gt; <em>DAMIC-M frame and kapton cable simulations</em></td>
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<td>10:30 AM - 11:00 AM</td>
<td>--- Coffee break ---</td>
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<tr>
<td>11:00 AM - 11:20 AM</td>
<td><em>Pia Loaiza</em>, LAL, CNRS/Université Paris Saclay &lt;br&gt; <em>Shielding simulations with neutrons</em></td>
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<td>11:20 AM - 11:35 AM</td>
<td><em>Steven J. Lee</em>, University of Zurich &lt;br&gt; <em>Data Quality Monitoring</em></td>
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<td>11:35 AM - 12:30 PM</td>
<td><em>Mariangela Settimo</em>, SUBATECH, CNRS-IN2P3 &lt;br&gt; <em>Background from connectors</em></td>
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<td>12:30 PM - 1:30 PM</td>
<td>--- Lunch ---</td>
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<td>1:30 PM - 5:30 PM</td>
<td><strong>LOW BACKGROUND</strong> &lt;br&gt; <em>Dan Baxter, Cedric Cerna, Isaac Arnquist</em></td>
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<tr>
<td>1:30 PM - 2:00 PM</td>
<td><em>Dan Baxter</em>, University of Chicago &lt;br&gt; <em>Introduction</em></td>
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<td>2:00 PM - 2:15 PM</td>
<td><em>Mogens Dam</em>, Niels Bohr Institute &lt;br&gt; <em>CCD Shielding</em></td>
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<td>2:15 PM - 2:30 PM</td>
<td><em>Radomir Smida</em>, University of Chicago &lt;br&gt; <em>Shielding boxes</em></td>
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<td>2:30 PM - 2:45 PM</td>
<td><em>Ryan J Thomas</em>, University of Chicago &lt;br&gt; <em>CCD Activation Studies</em></td>
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<td>2:45 PM - 3:15 PM</td>
<td><em>Dan Baxter</em>, University of Chicago &lt;br&gt; <em>Discussion</em></td>
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<td>3:15 PM - 3:45 PM</td>
<td>--- Coffee break ---</td>
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<td>3:45 PM - 4:05 PM</td>
<td><em>Emma Meehan</em>, Boulby underground laboratory &lt;br&gt; <em>Boulby: XIA and Ge Counters</em></td>
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<td>4:05 PM - 4:10 PM</td>
<td><em>Warot Guillaume</em>, CNRS &lt;br&gt; <em>LSM: Ge Counters</em></td>
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<td>Time</td>
<td>Speaker</td>
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<td>4:10 PM - 4:15 PM</td>
<td>Rocio Vilar Cortabitarte</td>
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<td>4:15 PM - 4:20 PM</td>
<td>Isaac Arnquist</td>
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<tr>
<td>4:20 PM - 4:25 PM</td>
<td>Ian Lawson</td>
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<td>4:25 PM - 4:30 PM</td>
<td>Cedric Cerna</td>
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<td>4:30 PM - 5:00 PM</td>
<td>Dan Baxter</td>
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<td>5:00 PM - 5:15 PM</td>
<td>Cedric Cerna</td>
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<td>5:15 PM - 5:30 PM</td>
<td>Isaac Arnquist</td>
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Wednesday - July 10, 2019

9:00 AM - 9:30 AM  DAQ
Xavier Bertou, Olivier Deligny

9:00 AM - 9:15 AM  Olivier Deligny, CNRS/IN2P3 -- Orsay
Status and Discussion

9:15 AM - 9:30 AM  Claire Juramy, LPNHE
High level sequencer software

9:30 AM - 3:30 PM  ELECTRONICS
Hervé Lebbolo

9:30 AM - 10:00 AM  Hervé Lebbolo, LPNHE
Presentation electronics

10:00 AM - 10:30 AM  Mircea Bogdan, University of Chicago
ODILE board

10:30 AM - 11:00 AM  --- Coffee break ---

11:00 AM - 11:30 AM  Ryan J Thomas, University of Chicago
Serial link

11:30 AM - 12:00 PM  Romain Gaior, LPNHE
Readout (Zurich & Paris)

12:00 PM - 12:10 PM  Hervé Lebbolo, LPNHE
CABAC

12:10 PM - 12:30 PM  Marc Dhellot, LPNHE
CCD control

12:30 PM - 1:30 PM  --- Lunch ---

1:30 PM - 2:00 PM  Philippe Vallerand, LAL - CNRS/IN2P3
Microelectronics

2:00 PM - 2:15 PM  Stefano Russo, CNR/IN2P3
Readout sequencer

2:15 PM - 2:45 PM  Romain Gaior, LPNHE
Readout & Control test bench

2:45 PM - 3:00 PM  Hervé Lebbolo, LPNHE
CCD to CROC interface

3:00 PM - 3:30 PM  Hervé Lebbolo, LPNHE
Overall electronics discussion

3:30 PM - 4:00 PM  --- Coffee break ---

4:00 PM - 5:30 PM  VISIT TO LABS
Hervé Lebbolo, Romain Gaior
Thursday - July 11, 2019

9:00 AM - 10:30 AM  
**LSM**  
Michel Zampaolo

9:00 AM - 9:30 AM  
Christophe Vescovi, LPSC/LSM  
*Laboratory updates*

9:30 AM - 10:00 AM  
Radomir Smida, University of Chicago  
Clean rooms status

10:00 AM - 10:30 AM  
Christophe Vescovi, LPSC/LSM  
*Discussion*

10:30 AM - 11:00 AM  
--- Coffee break ---

11:00 AM - 2:00 PM  
**SCIENCE**  
Antoine Letessier-Selvon

11:00 AM - 11:30 AM  
Joao Miguel Da Rocha, LPNHE  
*DAMIC @ SNOLAB*

11:30 AM - 12:00 PM  
Karthik Ramanathan, University of Chicago  
DM-electron Scattering

12:00 PM - 12:30 PM  
Dan Baxter, University of Chicago  
*Science with 10 g detector*

12:30 PM - 1:30 PM  
--- Lunch ---

1:30 PM - 2:00 PM  
Marco Cirelli, CNRS  
*Low mass Dark Matter*

2:00 PM - 3:30 PM  
**TECHNICAL BOARD**  
Radomir Smida

2:00 PM - 2:20 PM  
Dan Baxter, University of Chicago  
10 g detector at LSM

2:20 PM - 2:40 PM  
Pitam Mitra, University of Washington  
10 g detector (low-radioactivity package & Leach system)

2:40 PM - 3:00 PM  
Radomir Smida, University of Chicago  
Discussion about 10 g detector

3:00 PM - 3:30 PM  
Radomir Smida, University of Chicago  
Critical items of the Project

3:30 PM - 4:00 PM  
--- Coffee break ---

4:00 PM - 5:30 PM  
**CB MEETING**  
Ben Kilminster

4:00 PM - 4:15 PM  
Paolo Privitera, University of Chicago  
General report from spokesperson

4:15 PM - 4:30 PM  
Radomir Smida, University of Chicago  
Report from technical coordinator on progress

4:30 PM - 4:40 PM  
Rocio Vilar Cortabitarte, IFCA  
Report from Conference & publications committee
4:40 PM - 4:45 PM  Paolo Privitera, University of Chicago
   New memberships in progress

4:45 PM - 5:30 PM  Ben Kilminster, University of Zurich
   Report from each group regarding funding, personnel, concerns
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:00 AM - 10:30 AM</td>
<td>TASKS REPORTS AND MEETING SUMMARY</td>
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<tr>
<td></td>
<td>Antoine Letessier-Selvon, Paolo Privitera</td>
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<tr>
<td>10:30 AM - 11:00 AM</td>
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