

**2026 QuarkNet Workshop**  
**University of Illinois Chicago - Chicago State University Center**  
**at Dominican University, River Forest, IL**

**Monday, June 8, 2026 - Intro to particle physics, detectors, and pyramid project**

<p><b>09:00</b> Classroom <a href="#">Parmer Hall</a></p>	<p><u>Opening Session</u></p> <ul style="list-style-type: none"> <li>• Welcome, bagels, coffee</li> <li>• Sign-in</li> <li>• Registration of new users</li> <li>• Safety, bathrooms, other needs</li> <li>• Norms, <a href="#">APS STEP UP poster</a></li> </ul>
<p><b>09:15</b> Classroom</p>	<p>Intro to the standard model</p> <ul style="list-style-type: none"> <li>• <a href="#">Shuffling the Particle Deck</a></li> </ul>
<p><b>10:00</b> Lab and classroom</p>	<p>Intro to Cosmic Ray Muon Detectors</p> <ul style="list-style-type: none"> <li>• <a href="#">Overview of detector components</a></li> <li>• Make eLab accounts for new folks</li> <li>• Collect data: 0° and 90° <ul style="list-style-type: none"> <li>◦ Break while detectors run</li> </ul> </li> <li>• Time of Flight analysis <ul style="list-style-type: none"> <li>◦ Compare counts</li> <li>◦ Why doesn't time of flight = 0 ns?</li> </ul> </li> <li>• Poster, if time allows</li> </ul>
<p><b>12:00-1:00</b></p>	<p><b>LUNCH</b></p>
<p><b>1:00</b> Classroom</p>	<p>Science talk, Mark Adams: <a href="#">Imaging the pyramids of Chichen Itza using cosmic ray muon detectors</a></p>
<p><b>1:30</b> Lab</p>	<p>Set up pyramid tracker and QNet CRMD in tandem Begin data run</p>
<p><b>3:30</b></p>	<p>END for the day</p>

**Tuesday, June 9, 2026 - Pyramid Experiment**

<p><b>09:00</b> Classroom</p>	<p>Sign in, opening discussion</p>
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<b>9:10</b> Lab and classroom	End data run. Start new run at new angle Analyze data from overnight run
<b>10:00</b>	Analysis talk: Edit
<b>11:00</b> Classroom	Science Talk: Shafaq Elahi
<b>12:00</b>	<b>LUNCH</b>
<b>1:00</b> Lab and classroom	Continue pyramid experiment: record data at various angles
<b>3:30</b>	END for the day

### Wednesday, June 10, 2026 - Implementation

<b>09:00</b>	Sign-in and opening discussions
<b>9:10</b> Lab and classroom	Sync the two detectors together
<b>11:00</b>	Dominican Tour
<b>12:00</b>	<b>Lunch</b>
<b>1:00</b> Classroom	Data activities portfolio 2: Rolling with Rutherford
<b>1:30</b> Classroom	Implementation plans Students create posters
<b>3:00</b> Classroom	Share implementation plans and posters End of workshop survey
<b>3:30</b>	END for the day

**CR Resources:**

Poster site: <https://www.posternerd.com/>

Pyramid site: <https://www.i2u2.org/elab/cosmic/pyramid-display/>