

LArIAT

Jason St. John
AEM 2016.06.06

Recent Improvements & Running

LAr cryofilter began to reach saturation early May

- Paused data-taking operations May 5
- Regenerated filter by standard method (~days)
- Took the opportunity to implement planned upgrades and repairs
 - Opened cryostat to replace damaged PMT
 - Improved range stack granularity x2
- Returned to normal operations smoothly May 23

Go to:

Ev: 14

Run: 9277

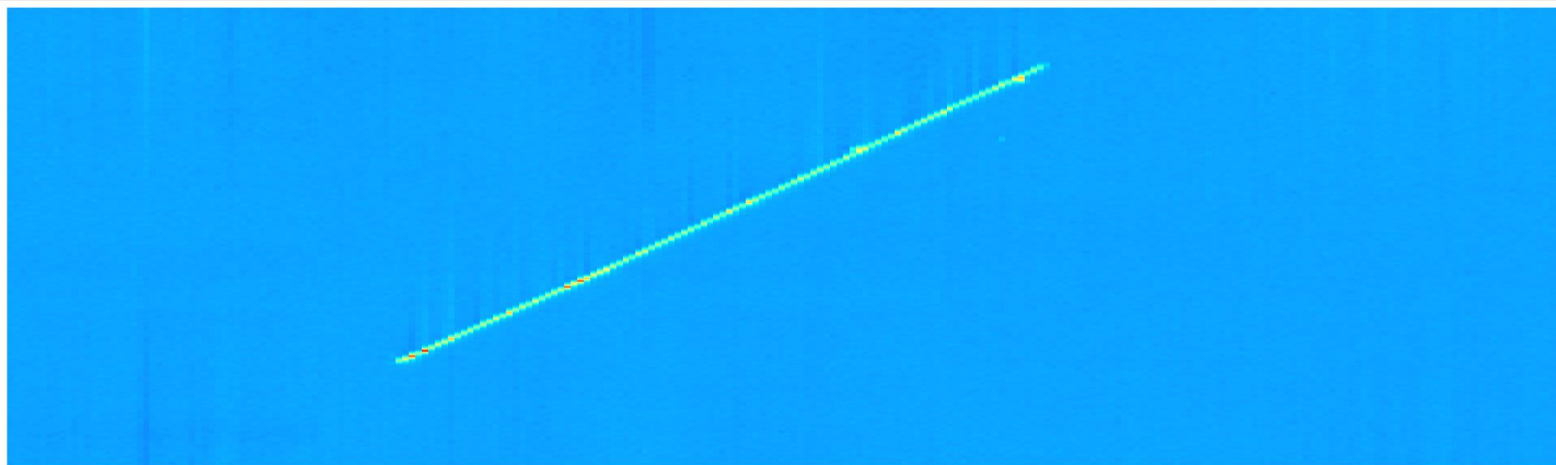
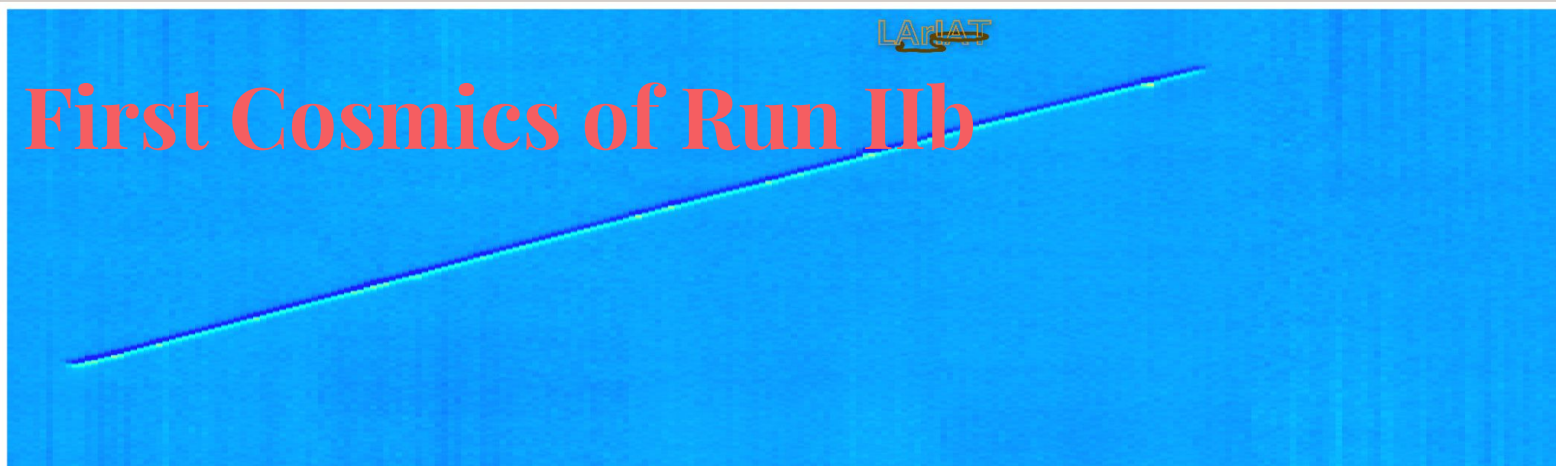
Spill: 58

☐ Auto Range☐ Lock A.R.☐ Wire Drawing☐ Use cm☐ Draw Scale Bar☒ Draw Logo

View Options

☐ All☐ Plane0☐ Plane1

W: 80, T: 3068

Lariat DQM
Online Monitor

Event Update OFF

Delay (s):

Spill Update OFF

Go to:

Ev. 13

Run: 9277

Spill: 80

☐ Auto Range☐ Lock A.R.☐ Wire Drawing☐ Use cm☐ Draw Scale Bar☒ Draw Logo

View Options

☐ All☐ Plane0☐ Plane1

W: 87, T: 3063

LARIAT

First Beam Event of Run IIb

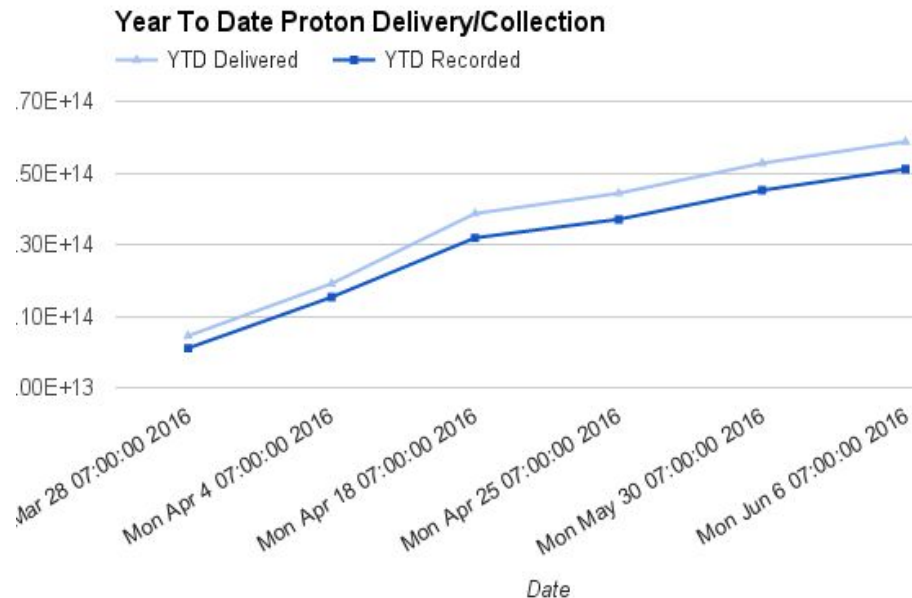
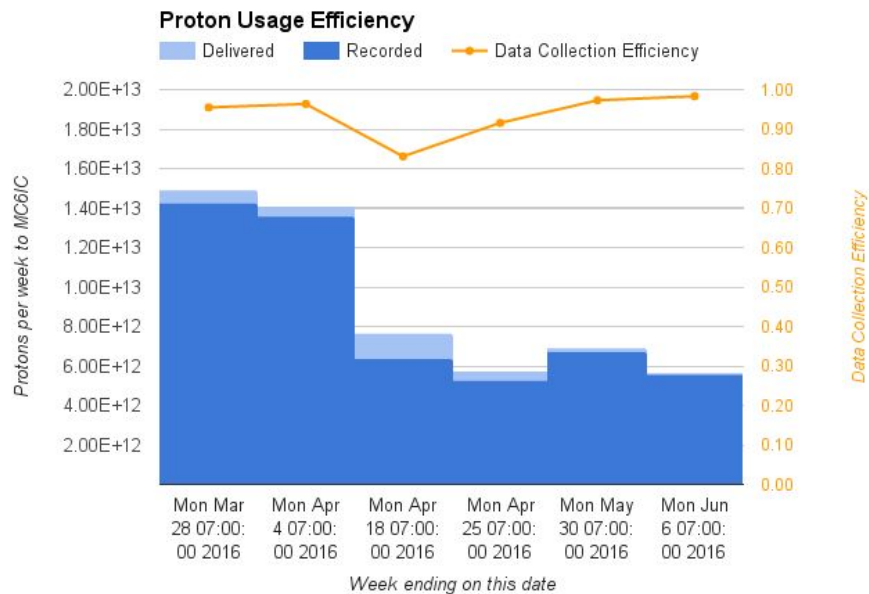
Lariat DQM
Online Monitor

Event update OFF

Delay (s):

Spill update OFF

Estimated Proton Usage Statistics



Average Jobs Running Concurrently

134

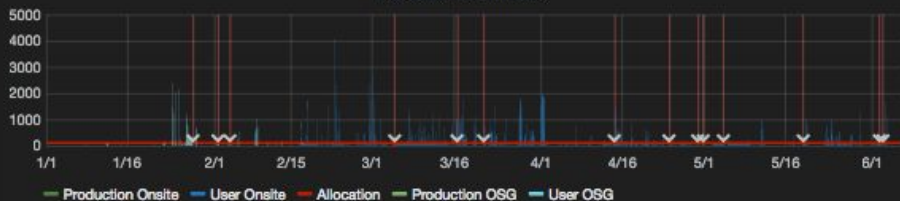
Total Jobs Run

48924

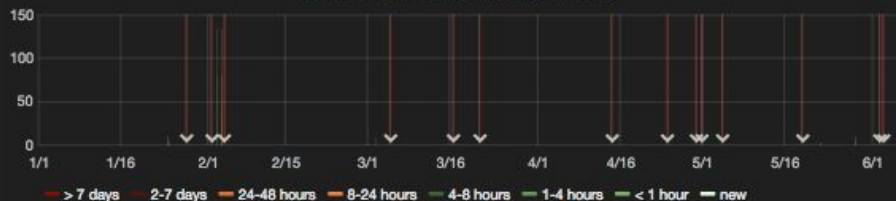
Average Time Spent Waiting in Queue (Production)

21.23 hour

Running Batch Jobs



Queued Production Jobs by Wait Time



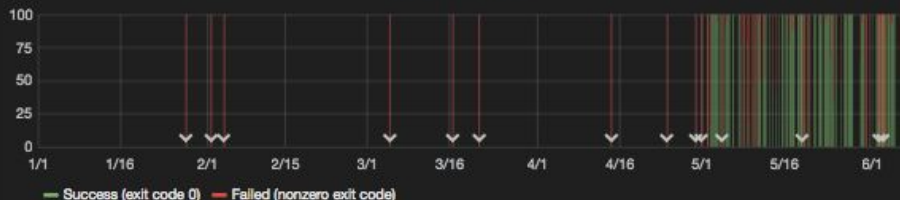
Total Jobs Failed (nonzero exit code)

9899

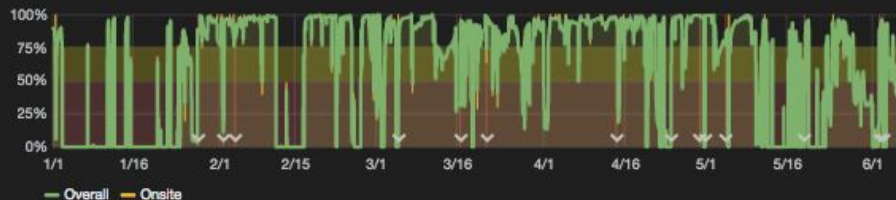
Average CPU Efficiency

76.6%

Job Success Rate



CPU Efficiency



New Data Cataloged

10.3 TB

Total Data Cataloged

0.0 PB

Run Plan Horizon

This week (once the MI-52 Septa Tank B ground fault can be repaired):

- LArTPC wire plane transparency study
- LArTPC drift E-field magnitude study

Meanwhile data analysis ongoing to estimate further needs of upcoming physics analyses

- Known interested special menu items:
 - K⁺ runs (high momentum, positive sign selection)
 - E[±] runs (pending MC studies, possible need for He bag)