

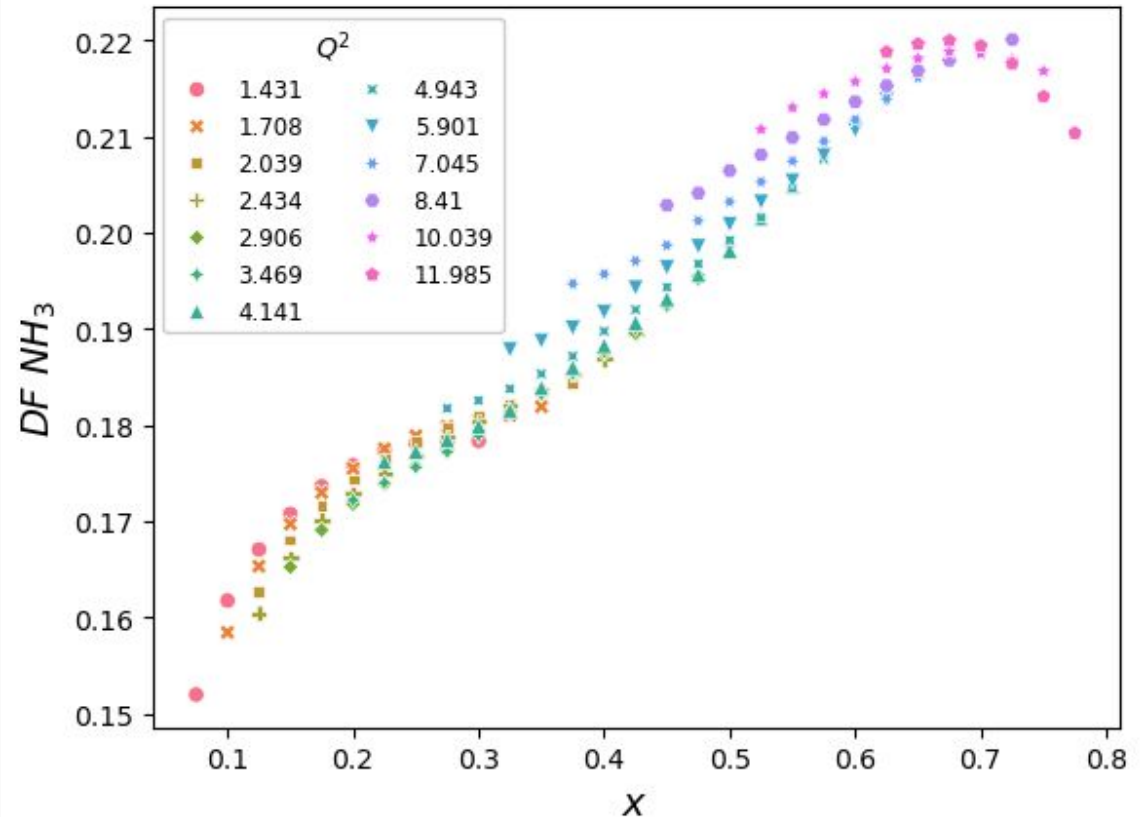
RG-C - Inclusive Update

17 January



Dilution Factor Model

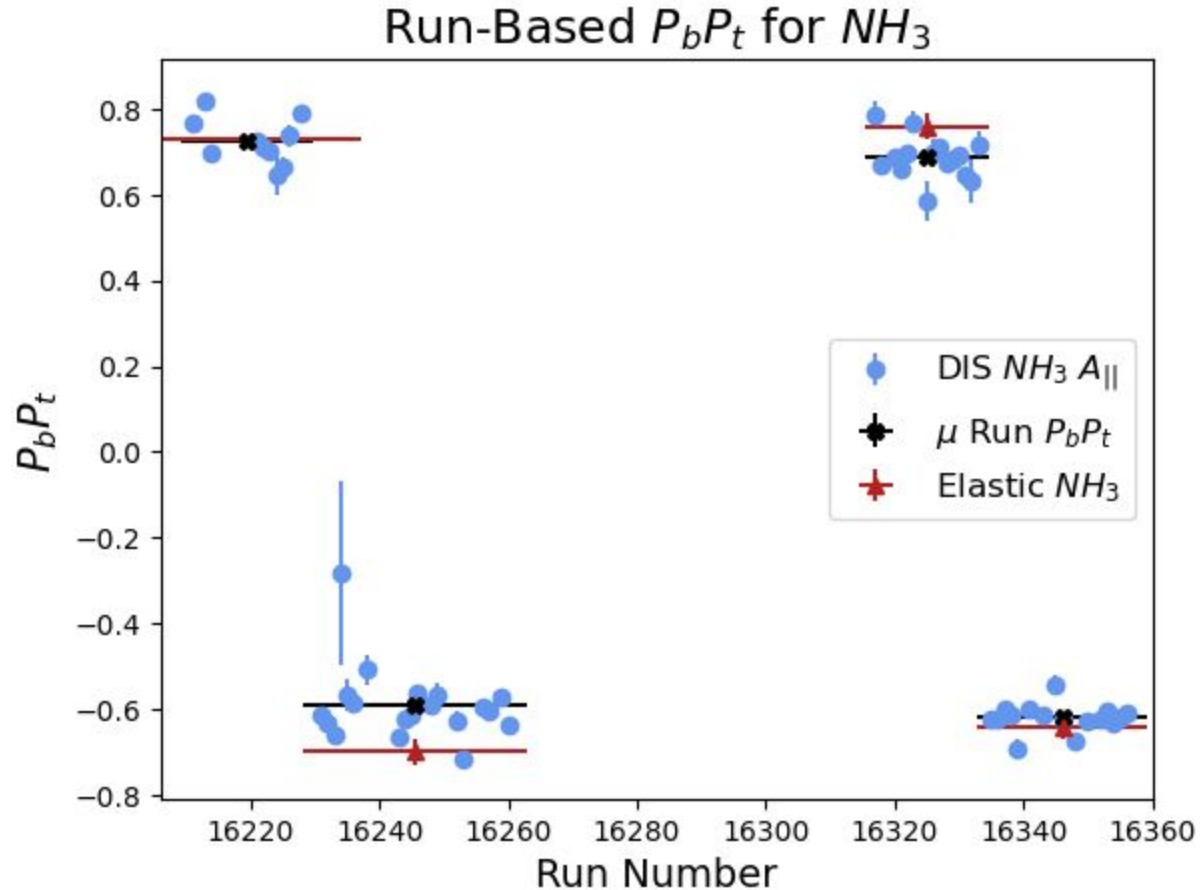
- ❖ Results from December
- ❖ PF from “Epoch 2”



Run Based PbPt

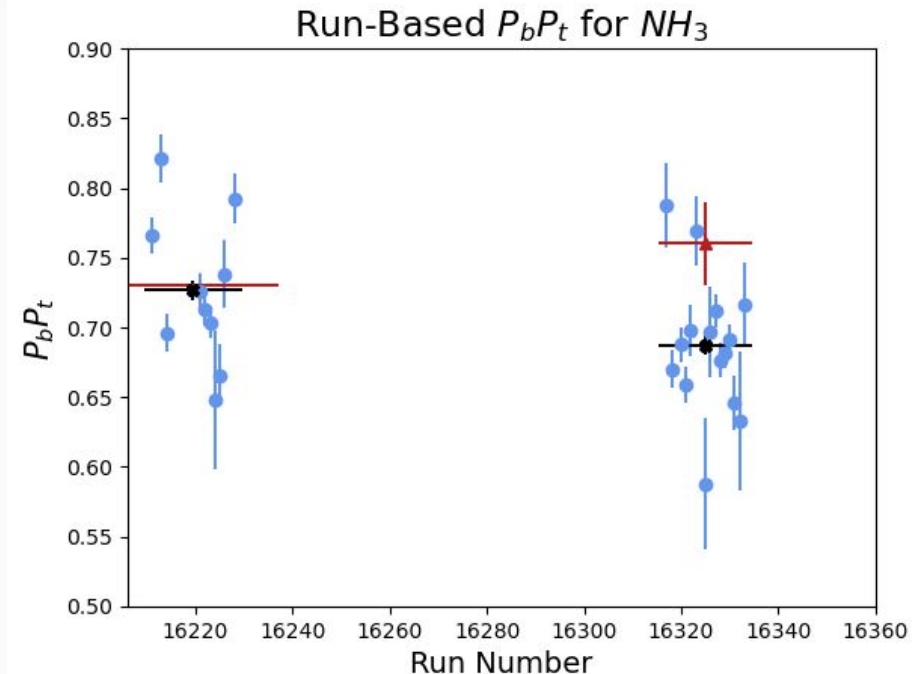
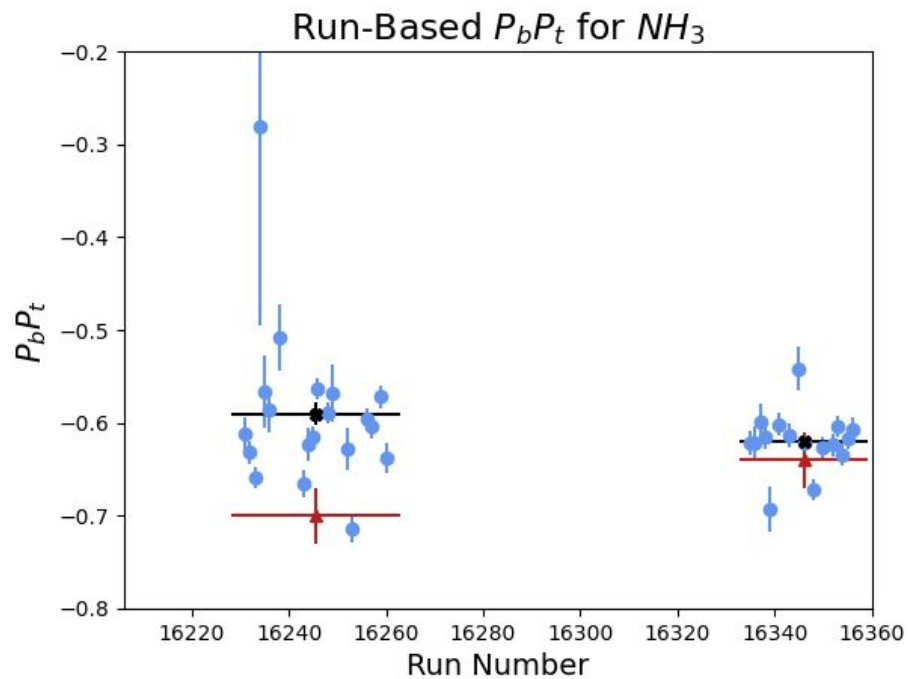
- ❖ Using QADB cuts
- ❖ Using one set of DF values
- ❖ Same eqn as elastics

```
QADB* qa = new QADB("latest");  
qa->SetMaskBit("TotalOutlier",true);  
qa->SetMaskBit("TerminalOutlier",true);  
qa->SetMaskBit("MarginalOutlier",true);  
qa->SetMaskBit("SectorLoss",true);  
qa->SetMaskBit("LowLiveTime",true);
```



Run Based PbPt

❖ Zoomed in for pos or neg



Running Inclusive MC

❖ Using web interface - clasdis

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CLAS12 Monte-Carlo Job Submission Portal (Test Version)

Logged in as dwupton

Configuration	<input type="text" value="rgc_summer2022"/>	
Versions (see README)	<input type="text" value="gemc15.10 coatjava/10.0.9"/>	
MC Gen Versions (see README) Consider testing the generators	<input type="text" value="3.12"/>	
Magnetic Fields	<input type="text" value="tor-1.00_sol-1.00"/>	
Vertex	<div><input checked="" type="checkbox"/> z: adjust for target position and semi-length <input type="text" value="-3.0*cm, 2.5*cm"/> <input checked="" type="checkbox"/> x/y: smear beamspot <input type="text" value="0.0*mm, 0.0*mm, 0.0*mm, 0.0*mm, 0*deg"/> <input checked="" type="checkbox"/> x/y: raster <input type="text" value="0.0*cm, 0.0*cm"/> <input checked="" type="radio"/> Ignore Generator Vertex <input type="radio"/> Relative to Generator Vertex</div>	
Generator	<input type="text" value="clasdis"/>	
Generator Options	<input type="text"/>	clasdis options
Once you've chosen the generator, review the linked documentation and insert the desired options above. Do not utilize the following options, as they are automatically included: --docker, output file name, --trig .		
Number of Events per Job	<input type="text" value="10000"/>	
Number of Jobs	<input type="text" value="100"/>	
Total Number of Events	<input type="text" value="1"/> M	
Background Merging	<input type="text" value="No"/>	
String Identifier (optional)	<input type="text" value="CLASDIS_NoBkg"/>	
	<input type="button" value="Submit"/>	

Running Inclusive MC

❖ Using web interface - inclusive-dis-rad

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CLAS12 Monte-Carlo Job Submission Portal (Test Version)

Logged in as dwupton

Configuration	<input type="text" value="rgc_summer2022"/>	
Versions (see README)	<input type="text" value="gemc/5.10 coatjava/10.0.9"/>	
MC Gen Versions (see README) Consider testing the generators	<input type="text" value="3.12"/>	
Magnetic Fields	<input type="text" value="tor-1.00_sol-1.00"/>	
Vertex	<div><input checked="" type="checkbox"/> z: adjust for target position and semi-length <input type="text" value="-3.0*cm, 2.5*cm"/> <input checked="" type="checkbox"/> x/y: smear beamspot <input type="text" value="0.0*mm, 0.0*mm, 0.0*mm, 0.0*mm, 0*deg"/> <input checked="" type="checkbox"/> x/y: raster <input type="text" value="0.0*cm, 0.0*cm"/> <input checked="" type="radio"/> Ignore Generator Vertex <input type="radio"/> Relative to Generator Vertex</div>	
Generator	<input type="text" value="inclusive-dis-rad"/>	
Generator Options	<input type="text"/>	disrad options
Once you've chosen the generator, review the linked documentation and insert the desired options above. Do not utilize the following options, as they are automatically included: <code>--docker</code> , <code>output file name</code> , <code>--trig</code> .		
Number of Events per Job	<input type="text" value="10000"/>	
Number of Jobs	<input type="text" value="100"/>	
Total Number of Events	<input type="text" value="1"/> M	
Background Merging	<input type="text" value="No"/>	
String Identifier (optional)	<input type="text" value="InclusiveDISRad_NoBkg"/>	
	<input type="button" value="Submit"/>	

First Look at Inclusive MC

- ❖ Using DIS generators with 100k events per generator
- ❖ V_z needs to be aligned

