

Report on the Program Advisory Committee

Jefferson Lab S&T Review 28-30 July 2015



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Member, PAC41-43
Chair, PAC43



A Brief History of Recent PAC Meetings

- PAC37 & PAC38: January & August 2011
 - *The last time there were two PAC meetings in one year*
- Most recent DoE S&T Review: May 2012 (*Naomi Makins presentation*)
- PAC39: June 2012
 - *19 proposals, 5 approved outright, 5 C1, 3 C2*
- PAC40: June 2013
 - *12 proposals, 6 approved outright, 1 C1*
- PAC41: May 2014
 - *Special PAC meeting to identify “High Impact” experiments*
- PAC42: July 2014
 - *13 proposals, 9 approved outright, 1 C2*
- PAC43: July 2015
 - *8 proposals, none approved outright, 1 C1, 3 C2, 1 special (C2/Defer)*

C1 → Lab needs to OK technical requirements

C2 → Must return to PAC for approval and rating

JLab Policy on Experimental Equipment Availability

New categories are in place for resource availability

- Stage I
 - *Resources need to be identified and obtained*
- Stage II
 - *Resources are essentially available*

Note: The Laboratory establishes these categories.
The PAC receives them at the start of deliberations.

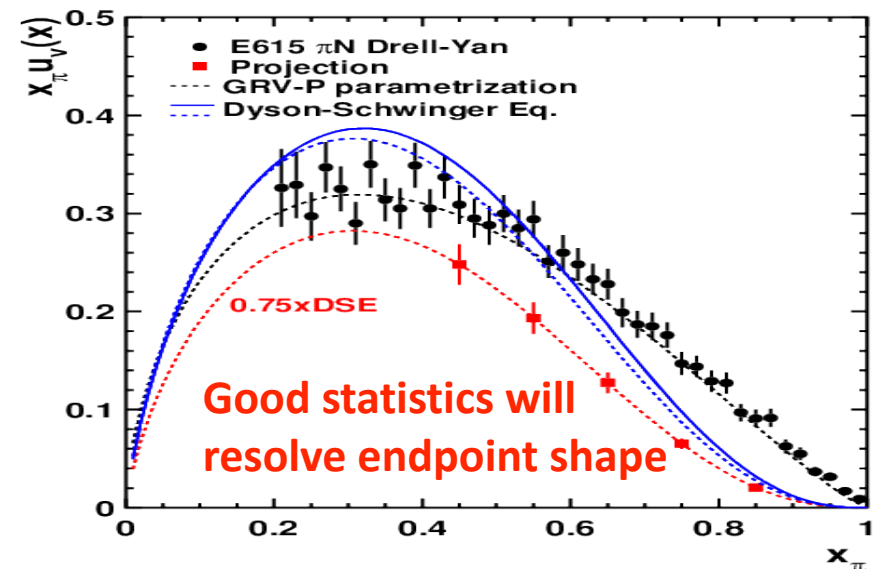
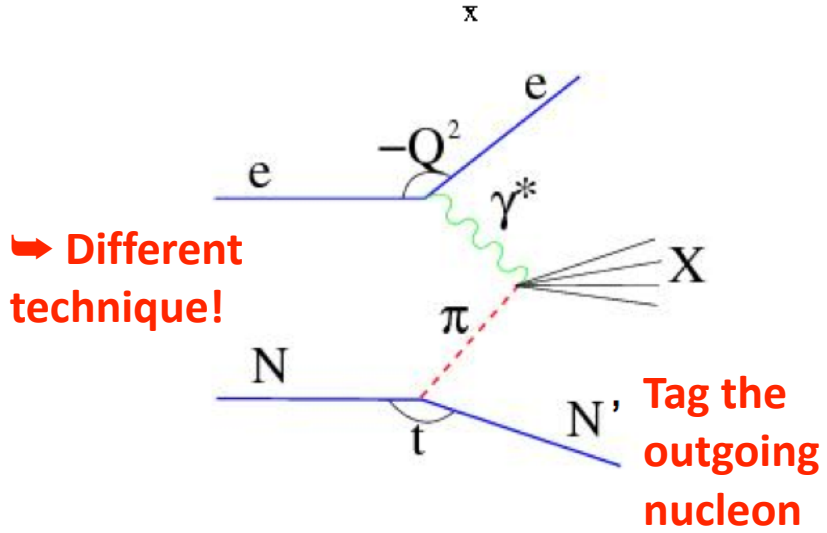
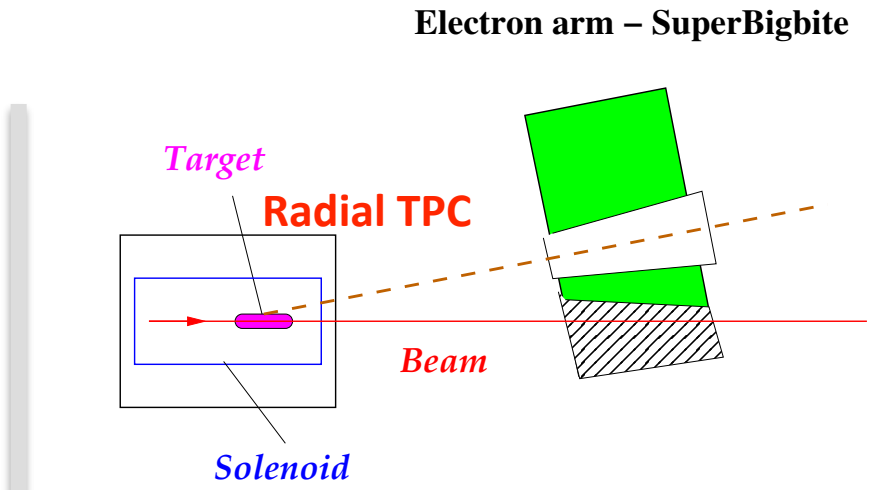
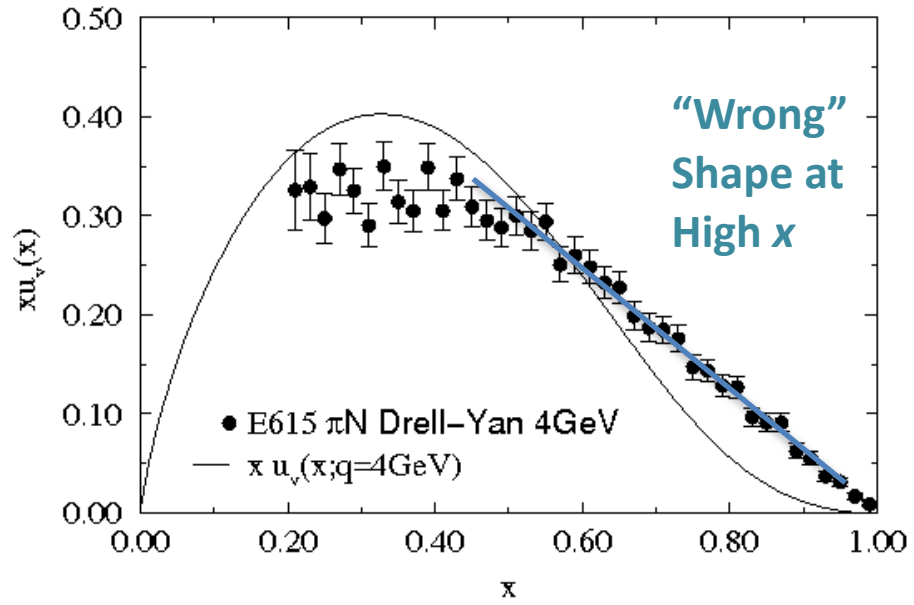
PAC41: Identifying “High Impact” Experiments

- At the time, roughly 2500 (PAC) days of already-approved beam time
- Committee charge: Identify 600 days of “High Impact” beam time
 - *The goal was to advise the laboratory on half of the available beam time in the first three to five years of running in the 12 GeV era*
- We ended up recommending **643 days of High Impact running**
 - *This was not an easy exercise!*
 - *Report notes that “we had to exclude experiments that we unanimously agreed should be included.”*
 - *Our procedure was to have individual evaluations of all experiments, regardless of approval rating, experimental hall, or physics group, but finding paths to demonstrating early success of the 12 GeV program.*
 - *In the end, there was (fortuitously!) good balance between Halls*
 - *For more details, see Naomi Makins’ comments in the PAC41 Report*
- Note: No “High Impact” experiments identified in PAC42 or PAC43

Notes on PAC43

- Meeting was two weeks ago, final report is available now
 - *Excellent work from Committee members and JLab Staff made it possible to have all reports completed before we left for home*
- We established a “high bar” for approving proposals
 - *The PAC was uniformly impressed with the quality of the proposals, but in most cases we wanted to see a more crisp motivation and a well thought-out plan for execution.*
 - *We also respect the backlog, and want to encourage all new proposals to reach for “High Impact” levels in justification*
- One experiment approved (C1) for beam time, Scientific Rating A-
 - *Ineligible for “High Impact” because it is a “Stage I” experiment*
 - *However, it is worth taking a brief closer look...*

Approved by PAC43: Pion Structure Function using TDIS



Parallel Run Group Proposals: Status after PAC43

- Starting with PAC40, Hall B (CLAS12) proposals requesting no new beam time, would be treated by the PAC in accordance with whatever internal collaboration review procedures were in effect.
- Similarly, proposals for new beam time were asked to be based on lead proposals (which set the running conditions) but should include a suite of other measurements using the same beam time.
- This precedent is now extended to SoLID in Hall A, and presumably any other examples of parasitic running
- However, inertia is powerful, and these procedures were not well followed in one Proposal and two Letters of Intent. We believe that the PAC43 report makes it clear what JLab and the PAC expect in the future.