Comments on the GlueX NIM Paper

General

Page 14, Note 28 Shouldn't this be
"Defined as the region from the coherent edge to 0.6 GeV below the coherent edge", or
"Defined as the 0.6-GeV-wide energy region bounded by the coherent edge" ?

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Figures

Figure 1:
I like the new figure. The caption cites 'Hall D' whereas the text refers to 'Hall-D'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Figure 2:
The caption should say Hall-D, to match the text.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Figure 3:
Chimney should be defined in a few words somewhere, either here or at Line 911

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes - Modified for other comment

Figure 3:

'in case' is used slightly differently in English than it is in American English, so I suggest avoiding it or adding 'the', i.e. 'in the case of'.
Here one could write 'or of the front face of the FCAL modules' instead.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes - reworded

Figure 4:
1) Would it be possible to show the profiler on this?
2) Ideally I would like more separation between the axis title and the labels, and a little more vertical white-space around the figure.
3) It has taken me this long to work out that 'Hall D' only appears hyphenated when followed by a noun. I don't think this is correct, as 'Hall D' is a proper noun.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Figure 5:
It shows radiator harp with larger error bars, while we found that the problematic harps are the first two, mostly 5C11B.

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: Yes - New figure produced by Richard

Figure 6:
Without the acceptance correction the energy spectrum is not very useful for an outside reader. It is a typical "internal" plot for the collaboration.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - Justin has produced a new figure with a correction for the PS acceptance.

Figure 15:
Straw-tubes should be hyphenated in the caption.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: No - No hyphen is required

Figure 18:
Would a log scale in X be more useful? The most interesting area theta<20 deg is too compressed in the linear scale.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Figure 23:
Since the constant terms are much worse (x3) than other experiments claim, it may need a more detailed discussion. Would a reasonable position resolution cause such a broadening?

Eugene Chudakov gen@jlab.org 27 Apr 2020

Implemented: Yes - Text updated to clarify the correlation between fitted constants

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Figure 27:
What is the horizontal band almost along the x-axis?

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: No - Most likely low-energy photons. No change to figure.

Figure 27:
Suggest to extend the momentum scale of this plot to maybe 4 GeV/c.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: No - This figure was hard to reproduce and contains little information beyond 2 GeV

Figure 28:
Figs 28 & 29: positive should be positively, and the title in Fig 29b has tracks capitalized. The axis labels are very close to the axes.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Figure 28:
Suggest to change the color scale of this plot to the same as Fig 27, for both uniform presentation, and improved legibility.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Figure 30:
Cable misspelled and some lettering cut off on the right. Sasha is remaking this figure.

Elton Smith elton@jlab.org 07 Apr 2020

Implemented: Yes

Figure 30:
Typo in the top line - Cabl - also the figure has been clipped a little too much on the right-hand side.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Figure 31:
Labels: Bit1 and 3 are not referenced in the text. Sasha will remove them from the legend

Elton Smith elton@jlab.org 07 Apr 2020

Implemented: Yes

Figure 31:
I suggest removing the title 'JD70...' as it is not explained elsewhere and is not really necessary. In the caption, 'condition' should probably be 'conditions'.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - Moved to caption

Figure 32:
DQM Farm is not explained

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - removed

Figure 32:
Why the Infiniband switch has no input line?

Eugene Chudakov gen@jlab.org 27 Apr 2020

Implemented: Yes - Added double arrows

Figure 34:
The caption should explain hdBOR, epics2et and RSelog as they aren't mentioned in the text. It might be good to mention the RSelog in the text if it is the thing that saves all of the plots to the logbook, as it's useful.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: No - Most are explained, remaining left for experts. No change unless NIM reviewer complains

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Figure 37:
The magenta box makes my eyes hurt! It's too dark.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - Updated with new colors

Figure 38:
is -> are

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Figure 41:
Suggest to change the y-axis range, to reduce the empty portions of the figures. Either have the y lower limit about 0.4, or even better, a different y-scale for each panel.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes - Removed empty space, but kept same scale on both plots.

Figure 41:
In the caption, what are Method 1 and Method 2 need to be clearly linked to the descriptions in the text.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: No - Text is sufficiently clear. No change

Figure 42:
It would be helpful if photon reconstruction efficiencies for both Methods 1,2 be shown, just as they are for pi+ efficiency in Fig 42.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes - Added both methods to figure as in the previous figure

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Figure 43:
Please reduce the range of the y-axes, to reduce the amount of empty space on these panels. Something like 0.75 to 1.25 would probably be good.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Figure 46:

For the bottom set of 6 plots, please reduce the y-axis range to reduce the amount of blank space. I suggest 0 to 1.5.

The plotting symbol legend boxes are the same for every panel and do not have to be reproduced on all 12 panels. Reformatting the legend box will help save space and allow the y-axis ranges to be chosen more effectively.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Figure 47:
Top left: the axis values and the legend font are too small.

Eugene Chudakov gen@jlab.org 27 Apr 2020

Implemented: Yes

Figure 50:
I suggest to change the color scale to the same as Fig 27. This will not only give a uniform appearance, but also improve legibility.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Figure 52:
Missing text at end of caption and duplicate figure!

Elton Smith elton@jlab.org 07 Apr 2020

Implemented: Yes - Sean has submitted a new figure E/p for the BCAL.

Table

Table 3:
The second ohm needs a leading space.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text

Text 14:
Remove A. Henderson from the author list.

Volker Crede crede@fsu.edu 16 Apr 2020

Implemented: Yes

Text 26:
The affiliation of J. Reinhold should be f (FIU) and not g (FSU).

Volker Crede crede@fsu.edu 16 Apr 2020

Implemented: Yes

Text 71:
'straw tube' should be hyphenated for consistency with the CDC NIM and with the later text here.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 162:
"scalers" should be "scalars" (better, "scalar mesons")

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Text 165:
'that is' is strange following a plural. I would use 'i.e.' or 'as'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 168:

'is' should be 'are'

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 171:
I would remove 'both', it's a little awkward and also unnecessary.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 184:
'due to an extra one-half pass of acceleration relative to three other experimental halls (A, B and C)'.
This reads a little oddly and I don't think it's necessary, it's fine to end the sentence with '12GeV'.
If you wish to keep it, consider replacing 'an extra one-half pass of acceleration relative to' with 'one more pass through a linac than the'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes - with minor change to suggested wording

Text 194:
"The collimator, with a diamter of 5 mm diameter" -> The collimator of a 5~mm diameter

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 194:
Typo: diamter

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 206:

We don't need to write 'solenoidal magnet' as all solenoids are magnets, just write 'solenoid'. If I'm wrong about this, please LMK.

All these hyphens look a bit weird: 4-m-long, 2-cm-diameter, 30-cm-long. I think '4m long solenoid' is okay, but if you feel it needs the extra hyphen, consider rearranging the sentence so that the noun comes before the dimensions, this only adds a few words.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: No - left as is

Text 207:
"The liquid-hydrogen target is located 65 cm inside the upstream bore of the magnet." ->The liquid-hydrogen target is located inside the upstream bore of the magnet.
The value is on the picture. In this sentence the reference frame is unclear. "Upstream" is enough here.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 214:
Consider replacing 'the' with 'this'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 216:
Please could this sentence be rearranged to start with the subject? Starting at a radius of 10 cm from the beam line is the Central Drift Chamber, a cylindrical straw-tube detector => The Central Drift Chamber, a cylindrical straw-tube detector, starts at a radius of 10 cm from the beam line.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 230:
Extra word: 'within in' remove one of them

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 244:
"...must reconstruct...photon beam to an absolute precision of 1%." It looks like an overkill for the purpose of a hybrid search, and also difficult to prove if achieved.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: No - Agree with comment, but left text as from experts

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Text 266:
'gap region' should just be 'gap'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 280:
"With trigger improvements, future running is expected at 90 kHz" -> Later, in order to meet the requirements of the next phase of experiments, the DAQ capacity was increased to about 80 kHz and 1 gigabytes per second.

In was a DAQ (firmware) improvement rather than a trigger improvement.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 284:
"The experimental area is located off the northeast corner of the accelerator."
I suggest to remove this sentence. The accelerator layout has been already shown, and this sentence contains no new information.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 286:
"(toward the east)"
It is in fact ENE. I would suggest to remove these references (north, east...), or use more accurate values. For an outside reader this info is of little value.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - took most of suggested text

Text 297:
"tagged photon bunches"
What is a "tagged bunch"? I suppose that this does not refer to the tagger detectors. The RF in combination with the TOF helps to determine the accurate time of the target crossing for any beam bunch. Without a TOF there would be an arbitrary time offset.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - removed tagged

Text 316:
The statement about the intensity determined from induced current is not correct for Hall D radiator harp. This sentence can be removed.

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: Yes

Text 318:
Backwards quote marks

Naomi nsj@cmu.edu 28 Apr 2020

Implemented: Yes

Text 325:
5C11B bpm is a beam position monitor, not a beam profile monitor

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: Yes

Text 327:
The beam current stability is monitored by AD00C beam current monitor (BCM). There is a AD00C beam position monitor (BPM), but we do not really use it for operations.

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: No - used for monitoring. No change

Text 375:
In the footnote, 'scaled' should be 'scales'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 385:
Normally we do not use the amorphous radiator ladder for Al runs, we use the Al foil on the goniometer.

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: No - see line 381. No change

Text 421:
Should there be a footnote for Element Six, giving their website? Same for Newport Corporation line 378.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 422:
"The theoretical Darwin WIDTH (not widtht) FOR diamond ..."

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Text 422:
Spelling mistake "Dawin width diamond"

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Text 426:
"is OF the same order as ..."

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Text 456:
"to test WHETHER ..." (instead of "to test if ...")

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Text 482:
"0.5 C integrated electron charge." Wouldn't it be helpful also to convert this to hours of normal-intensity running?

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: No - Conversion depends too much on running conditions. No change.

Text 485:
"...GlueX Phase 2 full-intensity..." There is no explanation what is Phase 2 full intensity.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - reworded suggestion.

Text 492:

"electrons are deflected by larger angles" instead of "bent further"
("further" conveys the image of the electrons being deflected to the dump and then further)

Dan Sober sober@cua.edu 10 Apr 2020

Implemented: Yes

Text 494:
Missing word: 'and detected', add 'are'.

Naomi nsj@cmu.edu 23 Apr 2020

Implemented: Yes

Text 550:
"Saint Gobain" One should add a footnote with a reference (as in other cases where a vendor is mentioned). Naomi has already marked several of them.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 590:
Typo: channels should be channel

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 594:
I didn't recognise 'least-count', is that resolution?

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No - Common terminology. No change.

Text 597:
I think there should be an 'at' between 'saturate' and 'around'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 616:
"during GlueX 2"
Has it been defined? This paper is for GlueX Phase 1. One should just put the actual rate at GlueX Phase 1.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - reworded to cover the GlueX Phase I rates

Text 625:
I would write 'range of' instead of 'range in'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No

Text 625:
I would write 'range of' instead of 'range in'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No

Text 648:
This needs an unbreakable space between 900 and V (on the next line).

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No

Text 648:
This needs an unbreakable space between 900 and V (on the next line).

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No

Text 663:
'Described above', this was quite a long way above. 'Described in section 2.4.2' would be more helpful as not everyone will read the entire paper in one sitting.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No

Text 679:
We're not mentioning the tungsten foil? I think it was installed on the profiler originally. https://logbooks.jlab.org/entry/3563927

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes - We added a new section on the tungsten foil in response to your question.

Text 697:
Indicate should be indicates.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 702:
A reference (a footnote) for the ARI Corporation ?

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 709:
Lines 709 and 712 seem to be saying the same thing.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 724:
Typo: systems should be system.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 770:
A comma should be used in place of every omitted 'is'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No - seems ok to me

Text 776:
"The value of Σ depends on the intensity profile of the photon beam,
the thickness of the converter target, and the geometry of the setup. The value
of Σ was determined to be 0.1990 ± 0.0008 at 9 GeV for the GlueX beamline
and a 75 micron Be converter [20]."
Does the value of Sigma at 9 GeV depend on the intensity profile of the photon beam? I suppose
not. I would write that the value of Sigma depends on the beam photon energy.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 794:
This is duplicated in 798

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 856:
"The TAC is a small calorimeter (see Section 2.10) inserted directly into the photon beam to
count the number of beam photons" ->
The TAC is a small calorimeter (see Section 2.10) inserted directly into the photon beam in front
of the photon beam dump to count the number of beam photons

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes

Text 866:
The fraction of tagged photons reaching the GlueX target is determined as a function
of energy from individual TAC coincidence measurements with each tagging
counter. These "tagging fractions" are used to scale the counts measured in
the PS in order to obtain the total tagged flux that reached the GlueX target
during a given run period."

How are we using such a fraction? We can not event measure it correctly if the tagger counter is
noisy. We are just measuring the flux of tagged photons at a given energy with the help of PS,
knowing its efficiency to detect a beam photon at a given energy.

Sections 2.9.1 and 2.10 largely overlap and repeat each other.

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - Updating wording based on text from Richard

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Text 866:
'Causes' should be 'cause'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: No - fraction causes

Text 875:
'overwhelmed with rate' sounds like a fainting disorder, I would write 'overwhelmed by the rate'
or leave it out as it is followed by succumbing to radiation damage anyway.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes - removed phrase

Text 877:
I think 'where' should be 'when'.

Naomi nsj@cmu.edu 24 Apr 2020

Implemented: Yes

Text 879:
There's an extra space at the end.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 880:
'Solenoid' is enough, we don't need to write 'solenoid magnet'.
Same comment for line 882.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 883:
There are several 'about's here. Could we use 'approximately' instead, to be a little less casual?
This could be worded 'with a bore diameter and overall yoke length of approximately 2m and 4.8m, respectively'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 902:
Missing full stop before 'The'

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 908:
I could not follow this after the mention of pancakes, a diagram would be useful if it's important.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: No - getting hungry?

Text 911:
"passing through the coils' chimneys" -> passing through vertical cryostats called coils' chimneys

Eugene Chudakov gen@jlab.org 26 Apr 2020

Implemented: Yes - reworded

Text 955:
I suggest adding a comma after 'atm'

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 982:
It looks as if PXI system might need a space before system.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 994:
I think coil's should be coils'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes - reword

Text 1011:
Here and in line 1012 we have a wavy =, but previously ~ was used (line 960).

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: No - No change

Text 1025:
'are' should be 'is'

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1044:
'in' should be 'into'

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1080:
I think 'are' should be 'is'. Should 'read back' be concatenated or hyphenated?

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes - reworded

Text 1110:
Straw-tubes should be hyphenated everywhere. Also in 1115.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: No - No change

Text 1136:
'Support' should be 'supports'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1142:

We do not seem to have a reference for the FDC in section 5.2. We had at least one in the CDC NIM paper, so they do exist.

Curtis Meyer cmeyer@cmu.edu 14 Apr 2020

Implemented: Yes - added

Text 1143:
disk -> disc (or change the earlier ones to match)

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1199:
'does' should be 'do'

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1211:
The sentence structure is wrong, maybe a word is missing. It could say 'MFCs and control electronics from BROOKS Instruments are used throughout'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1315:
'First initial' should be 'first' or 'initial'. It might be better to continue the previous paragraph here, as the second stage is still being described.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1324:
Is p- a misprint? I expect the anti-proton flux to be extremely small.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: No - Correct as it stands. pbars are not common but of interest

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Text 1360:
"following extensive testing. [52, 53, 54, 55, 56, 57]."
Extra dot in the middle.

Eugene Chudakov gen@jlab.org 27 Apr 2020

Implemented: Yes

Text 1383:
Remove 'a' from 'has a transverse'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1429:
Add a comma after FCAL

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1445:
Remove ', which can be used'. Otherwise the end of the sentence refers to the light guide and not the LED.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1450:
'is' should be 'are', or deviations should be made singular.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1470:
15 ns needs an unbreakable space

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1496:
I think 'in' should be 'of'.

Naomi nsj@cmu.edu 25 Apr 2020

Implemented: Yes

Text 1523:
dE/dx should be in italics

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1551:
Consider adding a comma or 'and' before 'thereby'.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1561:
Innermost should not be hyphenated.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1578:
55'-long Non-metric! Wow, that's the first instance encountered.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: No - Left in feet

Text 1585:
Typo: sparcification -> sparsification

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1585:
'of' looks wrong. I'd rearrange it: generate a signal amplitude of at least 400 ADC counts above baseline from a minimum-ionizing particle

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1589:
'is' should be 'are'.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1589:
consists -> consist

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1624:
independent -> independently

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1626:
define -> defines

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1634:
are -> is

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - hit -> hits

Text 1636:
"all times must corrected for the amplitude-dependent walk."
must be corrected?

Eugene Chudakov gen@jlab.org 27 Apr 2020

Implemented: Yes

Text 1686:
Remove 'a'

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1766:
'Online' is missing: CEBAF Online Data Acquisition system

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1774:

single board -> single-board

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1823:
Add 'the' before Tagger Microscope.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1826:
Remove . after Sections

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1831:
occur -> occurs

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1834:
This sentence doesn't make sense to me.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - reworded

Text 1849:
NI PXI is used only for the solenoid. So the sentence would need to to be "to collect data from different sensors of the solenoid magnet as described ..."

Hovanes Egiyan hovanes@jlab.org 25 Apr 2020

Implemented: Yes

Text 1858:
hosts computers -> host computers?? And also PLC's and IOC's should be PLCs and IOCs throughout this section, if not possessive.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1872:
in case -> when

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1874:
The buttons on the GUI allow the user to access other more detailed GUIs. (If they are not active then why are they there? Surely they are all active). Maybe the statement is not needed.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: No - No change

Text 1896:
Remove System from Event Transfer System. It's not mentioned on CODA's page & looks odd here.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1901:
This is the only mention of the counting house. I don't think it's necessary. If it is necessary, it should be described.
I'm not sure what 'each' is referring to. It could be removed too. Maybe 'node' is missing?

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - reword

Text 1912:
the -> a (as the reference plot was not mentioned previously)

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1924:
RSelog copies a snapshot of the monitoring histograms into the electronic logbook.

Naomi nsj@cmu.edu 28 Apr 2020

Implemented: No - Left as is

Text 1954:
'Finally, regular analysis launches over the reconstructed data are performed, where a
reconstruction plugin filters out reactions previously specified by users in a web form.'
I don't think everyone will understand 'plugin'. 'Filters out' implies that the reactions are removed
from the processing. I suggest instead 'Finally, regular analysis launches over the reconstructed
data are performed for the reactions requested by users in a web form.'

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1960:
less or equal -> less than or equal to

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1971:
Remove 'about'.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1983:
is -> are

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1987:
as it comes in -> immediately

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 1992:
Instead of
'The red-colored box at the top of Fig. 37 represents experimental data that has been backed up to tape. The left-hand section of the box labeled "subset"...'
I suggest
'In Fig. 37, the 'FULL RAW DATA' box represents experimental data that have been backed up to tape. The box labelled "subset"...'
because data are plural, some people might not have the color version, and I think it reads better.

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2001:
'data is' -> 'data are' or 'data have been'

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2001:
I think 'production pass' might not be understood by others. I suggest 'a full pass of the reconstruction software' .

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes - reword

Text 2010:
on -> of

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2017:
Is it obvious what 'production processing' means? We don't need '(HPC)', it's not used again.
SU's and PSU's should not contain the apostrophes, but what are they - some kind of computer
time units? Do we need this much detail?

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2182:
has -> have

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2184:
'and the location' -> 'and providing the location'

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes

Text 2274:
I think some additional clarification is needed on the poorly modeled events with probability
<0.2. Are these events retained in the analysis and included in Fig 45? The text implies this is the
case, but I think it would be helpful if this point could be made explicit.

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: No - The text reflects our current understanding of the confidence levels and reconstruction.

Text 2408:
The Canadian funding agency has been missed in this list. It is:
Natural Sciences and Engineering Research Council of Canada (NSERC)

Garth Huber huberg@uregina.ca 14 Apr 2020

Implemented: Yes

Text 2550:
Vavra should be Va'vra https://www.slac.stanford.edu/grp/eb/team/vavra.html

Naomi nsj@cmu.edu 26 Apr 2020

Implemented: Yes