FFA@CEBAF Working Group|Minutes

## Meeting date | time 02/09/2024 | 11 AM EST | Meeting location <https://jlab-org.zoomgov.com/j/1614898082?pwd=TnUzMS81M2sxbDZIbERJU01tYkJCQT09>

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| Meeting called by | Alex B |
| Type of meeting | Weekly Meeting |
| Facilitator | Alex B |
| Note taker | Ryan, Kirsten |
| Timekeeper | Alex B |

 | AttendeesAlex B, Ryan, Scott, Dejan, Kirsten, Edy, Salim Ogur, Stephen, Tim, Todd, Vasiliy, Donish, Georg |

# Intro Discussion

* Problems with shared document editing
* How work it out?

# Agenda topics

## Time allotted | 25 mins | Agenda topic FOA| Presenter All

* Dejan – wants to continue the editing even though on vacation. Scott/Ryan should provide tools to do that the right way!
* Stephen found out that the deadline changed. It \*was\* April 4th, and now it’s March 4th.
	+ Internal deadline was last Friday for letter
	+ Ryan – what’s the internal deadline for the full review?
		- Looks like possibly Feb. 19th internally.
		- Will follow up with Spata/Marla/Etc…
* Ryan/Scott have slides from a discussion:
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		- Scott – primary concern is polarization degradation due to radiation
		- Alex B – 12 GeV has become skilled at handling high energy polarization
		- Scott – okay, maybe it's a secondary effect or it's too much even for the new personnel to handle on top of everything else
			* focus is self-consistent s2e; individual parts may have later design changes that have not been incorporated
		- Alex B – need to sort out diagnostic requirements, to be taken into account during CEBAF's instrumentation upgrade in the next few years
* Alex B – what about the title?
	+ Scott – "22 GeV" in title commits us too strongly to this energy
		- Alex agrees, Dejan doesn’t
			* Discussion about title, referring to NSAC language as well
			* Ryan recommends waiting until the proposal is more written before deciding
	+ 
* Hello Salim! Coming April 1st
	+ Worked at CERN as a PhD student – FCC-ee injector (positron)
		- LINAC and transferline optics
		- Beam transfer physics for antiproton machine
	+ Then IJCLab
	+ Then hadron therapy company
	+ Looking forward to joining!
* 
* Dejan – Scott and Ryan’s ideas were good
	+ Put Ryan’s LDRD radiation damage work in the text to show it’s being worked on
* Alex – take Ryan/Scotts viewgraphs, and try to include some of the things on Alex’s text
	+ 
* Scott – if there’s things we need to add to meet our primary goals
	+ If we make the FFA arc more believable but can’t integrate, probably fine
	+ To avoid throwing everything in that might be possible – don’t overpromise
* Stephen – magnet designs already take into account 2D design, may as well put it in b/c it happens when the optimization
* Scott – designate an “owner” to make sure everything is integrated properly
	+ Ryan nominated – agreed to oversee, but also very busy in the tunnel and Moller review
* Ryan uploaded an annotated copy of the FOA – please read
* Georg – would like to take part in this FOA at all
	+ Magnet testing (Ryan doing in LDRD)
	+ Bmad
	+ Any way to be involved?
		- Alex B – what would you want to take from the list?
			* Georg – since much of it is done with Bmad, might be good to include David Sagan
			* Kirsten – not sure there’s any Bmad capabilities not included
		- Scott – maybe depolarization due to SR effects? Can Bmad do that?
	+ Alex – if you want, write a brief description on how Cornell could contribute to the depolarization studies
* Stephen – put him on the last two sections (magnets and correction backup)
* Splitters – Ryan can copy/paste a lot from tech note, maybe Donish as well?
* Vasiliy – transition/matching section (Randy takes lead?)
	+ Already wrote a technique paper, so easy to convert – it’s in the tech note folder already
* Kirsten – contribute text for emittance/radiation studies?
	+ Why on here?
		- Hall lines
		- Splitter radiation issues
	+ Scott – we should mostly be ignoring the radiation and just match. But a parallel effort to tracking this so we have the results – imaging post-FOA design improvements
		- Post-FOA, we have S2E simulation – now we can focus on improvements
* Alex will ask Reza for input on extraction

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| Action Items | Person responsible | Deadline |
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## Time allotted | 25 mins | Agenda topic Sextupole FFA Arcs | Presenter Stephen/Dejan

* TBD

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| Action Items | Person responsible | Deadline |
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## Time allotted | 10 mins | Agenda topic AOB | Presenter All

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| Action Items | Person responsible | Deadline |
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## Special notes

Pathway to Repository: [https://jeffersonlab-my.sharepoint.com/:f:/g/personal/tristan\_jlab\_org/EqZ5MeS-nipCgPfZB5p0oS4B9Is67d3nQb9sLJI3Zyev9g](https://jeffersonlab-my.sharepoint.com/%3Af%3A/g/personal/tristan_jlab_org/EqZ5MeS-nipCgPfZB5p0oS4B9Is67d3nQb9sLJI3Zyev9g)