**RTP Installation Meeting) – Oct 12, 2019**

1. We have about 2 weeks in January for laser work, but sharing w/ PSS after Jan 7.



1. Items for UVA RTP installation
	1. UVA RTP Pockels cell in UVA mount, on existing translation stage
		1. This is the plan
	2. UVA PS (four + and four -), installed in rack
		1. John come up with a plan for (8) PS-Switch (8) Switch-RTP
		2. Rack mount these, be creative
		3. John to stuff DAC isolator
	3. JLAB DAC (four + and four -), EDM screen
		1. New DAC is ready
		2. Repurposed DAC cable (8), need controls
		3. John purchase R1B relay, for switching 115VAC re-use ON/OFF
		4. Consider names for (8) DAC for EDM screen
		5. Caryn will specify equations for EDM screen
	4. Modify laser cover (LSOP?), pull cables
		1. John will submit to shop
	5. Convey channel names to Halls (for recording if they want)
		1. Riad will communicate/update changes to Halls
		2. Riad will work to define new alarms for the RTP, to Daniel
2. Configuration/Alignment
	1. Grounding, of orthogonal plates?
		1. Making to go to the floated ground of the switches
	2. Which switches are we going to use (electrical, optical=falcon,dragon?)
		1. Plan A = Dragon, Plan B = UVA test electrical (slow down?), then decide
	3. Remote PC on/off
		1. See above, fan out same 24V on/off
	4. Laser alignment procedure
		1. Write down UVA procedure
		2. Hands-on training
3. Performance
	1. Assess 4-laser spot sizes at RTP cell and Photocathode, test 50cm, 40cm lenses
	2. (thermal) stability studies at UVA
		1. Doing burn in studies now
	3. plan for tracking stability and tests during SPRING 2019 run (pre-PREX/CREX
		1. Mott measurements
		2. maximize (+/- 2000ppm/hr) or minimize (+/- 200ppm/hr)
		3. Caryn’s plan
			1. QPD pickoff to test transition times on fast photodiode
			2. Measure charge asymmetry, test Aq feedback, working w/ Hall A
			3. Have a KDP Backout Plan
			4. Need one shift to in-line for RTP checkout
		4. Translation
			1. John figure out if we can remote desktop to USB to UVA stage
			2. Worst case no remote translation Spring run, assess for later
4. KDP Backout Plan
	1. Store cell in existing mount
		1. Mark location show can shove it back in
	2. Retain KDP DAC channels/cables tied off
	3. Retain EDM interface
5. JLAB RTP System
	1. Raicol large(r?$?$? => voltage increase) aperture crystal, metalized (spare when makes sense)
		1. 12x12 (attach Caryn’s quote for UVA), metalized contact plates
		2. Good experience, pleased w/ specs
	2. RTP Mount
		1. Caryn provide 3D CAD model, John will see about printing (vendor) + list of all thorlabs/Newport components
		2. We can also re-assess mount design…
	3. HVPS
		1. Go w/ UVA design, John figure out plan for forward support
		2. Let’s be sure to stay forward compatible to 2kHz