2020-12-08 Detector Planning Meeting notes

Date

08 Dec 2020

Attendees

- McKelvey, Mark E
- Philip Hart
- Kazutaka Nakahara
- Zimmerman, Kayla
- Rebecca Armenta
- Conny HanssonBhavna Nayak

Goals

• Set and status planning activities for detector development and deployment.

Discussion items

Time	ltem	Who	Notes
10 min	Beamti me support update		 Updates since Monday? Baseline JF and 2M 'traveller' pages on Confluence. Collect and analyze any remaining in-lab test data.
30 min	Prioriti es Review	All	 Group priorities review: Testing Setup ePix10k, ePix100, JF smalls for test in lab Characterize: Noise vs. temp, response vs. bias, stitching in transition regions, charge injection, timing window vs noise, bad pixel maps, constants RIXS-CCD cooler Analysis Gather and process relevant commissioning data for Mp travellers on Confluence. Solid pedestals Noise map Response uniformity (mini-X cu-fluorescence) Bootstrap gain (sealed source) Linearity (signal injection) Documentation Complete on-line travellers for Mp detectors Development RIXS-CCD cooler contract mod placed. CryoTel status? Anton project at UCB/SL underway, biweeking wettings SKR Downselect prep (Peter says 2/1, checking w/TID) Lab 'commissioning' DAQ Storage nodes LCLS I/II compatibility Table seismic BIO for racks in chase DP node purchase
30 min	Status		

- New covid updates: anybody planning any travel?Reminder about Health Check and weekly testing.
- Case surge anticipated in January, extra absence Avoid being at lab first two weeks of Jan. One person per day?
 - ٠

 - Focus on remote data analysis as possible. Tracking detectors to the same hutch by default? Do the right thing for everybody's benefit, including daily health check. lat early (Dec 14 % Dec 16).C &B, first winter closure so ask if questions Goal-setting exercise before winter break ٠

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 - PRP ongoing (May-December 2021) PAM: Exit slit has been installed, moving toward ready for beam into NEH 2.2

CH:

- Conference last week, uploaded some talks
- Meeting w/Chris Iniewski, RAL folks.

RA:

• Meet re cooling concepts...met with Jim re outside space: not much.

KP: JSA summary list circulated

- XPP/MFX/XCS fibers due this week, other wise need ugly solution.
- · Small Rayonix testing can be done by others.
- XPP/XCS power cable pinout (controls needs to tell us MPOD working)

KN:

- ePix100 scan for use in run18...Diling has preferences.
- HV cables done, re-install @CXI. Matt found defect in a fiber feedthrough.
- CXI ePix ran fine in ASC over the weekend.
- Grabbing JF modules for test in lab, but need power supply board from PSI.
- IOC

PH:

- MEC deployment, can't read back data from one quad.
- Circular connectors tough to release...special tool?
- EMP shielding for in-vac cables isn't tight at connector...revise?
- UXI IoC update.
- w/Bhavna & Frederic regarding commissioning data.

BN:

- · Got code working, now need to le it run on some data....
- · Lab visit week of thanksgiving, January moving.

Thursday updates:

PH

- UXI
- One quad at MEC had wrong event code, set in expert panel edit traveler for event codes
- Working to understand LV44 data...looks like photons are causing the 'spikes' in fourier space

ΚN

- · Sunday MFX finishes, 2M comes off, box delivered to MFX today.
- ٠ XPP having trouble with pgp server hat runs 2M.
- CXI fiber 450uW becomes 50-60uW, defect in port feedthrough sometime limits to 2uW(?), replacement flanges on order (8-9 weeks).

СН

- Measurements on sm 10k, pedestal application inconsistent in online ami, raw data is fine.
- Still see dashed lines in pedestal config.

KΡ

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16159-A400	01	DET Dept Infrastruct & D	ev	SLA	C Labor	\$1		69
19775-A400	01	Commissioning - DET		SLA	C Labor	\$	23	\$7 !
17341-A400	01	Detector Program Mana	gement	SLA	C Labor	\$3	27 \$2	76
17800-A400	01	Jungfrau Detectors		SLA	C Labor			\$1
19453-A400	01	ePixM Shingle-Tiling Co	ncept	Sho	op Service		-	\$6
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19733-A400	01			SLA	C Labor			\$8
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Action items: