2020-11-10 Detector Planning Meeting notes

Date

03 Nov 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	Item	Who	Notes
r	Beamti me support update		Updates since Monday? Baseline JF and 2M 'traveller' pages on Confluence. Collect and analyze any remaining in-lab test data.
E	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 UED testing 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, review draft Project Plan w/NEH 2.2 RIXS-CCD Concept Design quote in hand (\$58k) Anton project at UCB/SSL underway, biweekly meetings SXR Downselect prep (Peter says 2/1, checking w/TID) Lab 'commissioning' DAQ Storage nodes LCLS I/II compatibility Table selsmic BIO for racks in chase DP node purchase

30 min	Status	In-person tags in 1050??
		CH: Conference last week, uploaded some talks Meeting w/Chris Iniewski, RAL folks.
		RA: • Meet re cooling conceptsmet 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: 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 releasespecial tool? EMP shielding for in-vac cables isn't tight at connectorrevise? 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 uopdates:
		 • UXI • One quad at MEC had wrong event code, set in expert panel edit traveler for event codes • Working to understand LV44 datalooks like photons are causing the 'spikes' in fourier space
		 Sunday MFX finishes, 2M comes off, box delivered to MFX today. 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).
		 CH Measurements on sm 10k, pedestal application inconsistent in online ami, raw data is fine. Still see dashed lines in pedestal config.
		 Bhavna JSA BIO for move Arranging setup lab move mobile rack o XPP alcove

5 min	Budget Update	mmck	M&S Status (Through July)					
						Values KCST		Remaining
			PA Proj Act	PA Activity Desc	LSTM Desc 🏋		ACTUALS	Balance
			10918-A4001	DET Dist Exp Support	M&S	\$7	\$7	(\$0)
			16152-A4001	ePix Support	M&S	\$105	\$107	(\$2)
			16158-A4001	Other Detector Support	M&S	\$30	\$107	\$28
			16287-A4001	• • • • • • • • • • • • • • • • • • • •	M&S	\$5	\$3	\$1
			16826-A4001	DET Department Management DET Department Research	M&S	\$47	\$3	\$44
			16159-A4001	DET Department Research DET Dept Infrastruct & Dev	M&S	\$112	\$101	\$11
			17341-A4001	Detector Program Management	M&S	Ş112	\$6	(\$6)
			17439-A4001	DET Department OIP Projects	M&S	\$22	Şü	\$22
			17433-A4001	DET Department Oir Projects	IVIOCS	ŲZZ.		JZZ
						328	229	\$99
			Labor snapshot (June actuals):					
						Values		
						KCST		Remaining
			PA Proj Act	PA Activity_Desc	▼ LSTM Desc		ACTUALS	_
			16152-A400		Shop Servi		\$87 \$8	
			16152-A400	• • • • • • • • • • • • • • • • • • • •	SLAC Labo		\$1 \$	
			16158-A400	1 Other Detector Support	Shop Servi	ices :	\$10 \$4	
			16158-A400	1 Other Detector Support	SLAC Labo	r \$:	110 \$8	1 \$28
			16253-A400	1 C-S PAD Support	Shop Servi	ices	\$3	\$3
			16253-A400	1 C-S PAD Support	SLAC Labo	r	\$0 \$	0 \$0
			18303-A400	1 Jungfrau Support	Shop Servi	ices	\$3	\$3
			16287-A400	1 DET Department Management	Shop Servi	ices :	552 \$4	4 \$8
			16287-A400	1 DET Department Management	SLAC Labo	r \$:	209 \$21	5 (\$6)
			16826-A400	1 DET Department Research	Shop Servi	ices	28	\$28
			16826-A400	1 DET Department Research	SLAC Labo	r \$3	208 \$17	6 \$32
			16159-A400	DET Dept Infrastruct & Dev	Shop Servi	ices	\$72 \$13	6 (\$64)
			16159-A400	DET Dept Infrastruct & Dev	SLAC Labo	r \$:	164 \$16	9 (\$5)
			19775-A400	1 Commissioning - DET	SLAC Labo	r :	\$23 \$	7 \$16
			17341-A400	1 Detector Program Management	SLAC Labo	r \$	327 \$27	6 \$51
			17800-A400	1 Jungfrau Detectors	SLAC Labo	r	\$1 \$	1 (\$0)
			19453-A400	ePixM Shingle-Tiling Concept	Shop Servi	ices	\$1 \$	6 (\$5)
			18836-A400	1 L2S-I-DET - Planning	Shop Servi	ices	20	\$20
			18836-A400	L2S-I-DET - Planning	SLAC Labo	r	\$9	\$9
			19733-A400	1 L2S-I-DET-Project Management	SLAC Labo	r	\$2 \$	***
			19734-A400	3 L2S-I-DET-RIXS CCD Procure	SLAC Labo		\$1 \$	
			17439-A400	DET Department OIP Projects	Shop Servi		\$26 \$	· · · · · · · · · · · · · · · · · · ·
			17439-A400	1 DET Department OIP Projects	SLAC Labo	r ;	\$78 \$7	5 \$3
						1	511 133	\$177
								
15 min	Review ASC First Projects	all	Coordinate/update	lab schedule.				
10 min	Any other busine ss							

Action items: