2020-10-27 Detector Planning Meeting notes

Date

27 Oct 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
10 min	Beamti me support update		Wave8 testing/status? e ePix10k

30 min	Prioriti es Review	All	Group priorities review: In-House proposal writing: Hi-Z FerhikR UX HEXITEC (MHz?) 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 RIKS-CCD cooler RIKS-CCD ooler RIKS-CCD noise vs. temp Solid pedestals 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 RIKS-CCD, review draft Project Plan w/NEH 2.2 RIXS-CCD Concept Design (R has set meeting with STA to talk cooling options) Anton project at UCB/SSL underway, weekly meetings SXR Downselect prep Lab 'commissioning' DAQ Storage nodes LCLS I/I compatibility Table seismic BIO for racks in chase DP node purchase Actions:
30 min	Status		CH: (Are we ready to fix dashed line issue in the hutches?) • Charge injection scripts on 10k smalls for mask tests.
			RA: (Are we on track for Lin tests, and when to schedule him?) • Loan stages to CXIensure return. • 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: UED Quad now running on our DAQ (LCLS-II)no 2m when quad testing going on due to PDU channel limit. Replace PDU and cable in XPP to address 10A draw on Pix100 XCS IOC: Immediately trips when IOC is running, suspect software problem but not fully isolated.
			PH: • UXI loC update • MEC Laser-only tests • w? Bhavna & Frederic regarding commissioning data • Learning NERSC interface

5 min	Budget Update	mmck	M&S Status (Through July)					
						Values KCST		Remaining
			DA Proj Act	DA Activity Dosc	LSTM Desc 🏋		ACTUALS	Balance
			PA Proj_Act 10918-A4001	PA Activity_Desc DET Dist Exp Support	M&S	\$7	\$7	(\$0)
			16152-A4001	1 11	M&S	\$105	\$107	
				ePix Support	M&S		-	(\$2)
			16158-A4001	Other Detector Support		\$30	\$2 \$3	\$28 \$1
			16287-A4001	DET Department Management	M&S M&S	\$5	\$3	•
			16826-A4001	DET Department Research	M&S	\$47		\$44 \$11
			16159-A4001 17341-A4001	DET Dept Infrastruct & Dev	M&S	\$112	\$101 \$6	(\$6)
			17439-A4001	Detector Program Management DET Department OIP Projects	M&S	\$22	ŞU	\$22
			17433-A4001	DET Department OF Projects	IVIOCO	322		322
						328	229	\$99
			Labor snapshot (June actuals):					
						Values		
						KCST		Remaining
			PA Proj_Act	▼ PA Activity_Desc	▼ LSTM Desc	: ■ BA 1.2	ACTUAL	S Balance
			16152-A400		Shop Serv	ices	\$87 \$8	6 \$1
			16152-A400	1 ePix Support	SLAC Labo	r	\$1 \$	(\$0)
			16158-A400	1 Other Detector Support	Shop Serv	ices	\$10 \$4	
			16158-A400	1 Other Detector Support	SLAC Labo	r \$	110 \$8	1 \$28
			16253-A400	1 C-S PAD Support	Shop Serv	ices	\$3	\$3
			16253-A400	1 C-S PAD Support	SLAC Labo	r	\$0 \$	0 \$0
			18303-A400	1 Jungfrau Support	Shop Serv	ices	\$3	\$3
			16287-A400	DET Department Management	Shop Serv	ices	\$52 \$4	4 \$8
			16287-A400	1 DET Department Management	SLAC Labo	r \$:	209 \$21	5 (\$6)
			16826-A400	1 DET Department Research	Shop Serv	ices	\$28	\$28
			16826-A400	1 DET Department Research	SLAC Labo	r \$	208 \$17	6 \$32
			16159-A400	DET Dept Infrastruct & Dev	Shop Serv	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 \$	57 \$16
			17341-A400	1 Detector Program Management	SLAC Labo	r \$	327 \$27	6 \$51
			17800-A400	1 Jungfrau Detectors	SLAC Labo	r		(\$0)
			19453-A400	ePixM Shingle-Tiling Concept	Shop Serv			66 (\$5)
			18836-A400	1 L2S-I-DET - Planning	Shop Serv	ices	20	\$20
			18836-A400		SLAC Labo		\$9	\$9
			19733-A400	, ,	SLAC Labo			8 (\$6)
			19734-A400		SLAC Labo		-	(\$0)
			17439-A400	• •	Shop Serv			2 \$24
			17439-A400	1 DET Department OIP Projects	SLAC Labo	r :	\$78 \$7	5 \$3
						1	511 13	34 \$177
			1		i	i		•
15 min	Review ASC First Projects	all	Coordinate/update	lab schedule.				
10 min	Any other busine ss							

Action items: