2020-10-27 Detector Planning Meeting notes

Date

27 Oct 2020

Attendees

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

Goals

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

Discussion items

Time	ltem	Who	Notes
10 min	Beamti me support update		 Wave8 testing/status? ePix10k DAQ/IOC saga update? Small 10k testing? Baseline JF and 2M 'traveller' pages on Confluence. Collect and analyze any remaining in-lab test data.

	Drice	A1
30 min	Prioriti es	All • Group priorities review:
	Review	 In-House proposal writing:
		■ Hi-Z ■ ePixHR
		tixel
		■ UXI ■ HEXITEC (MHz?)
		• Testing
		 Setup ePix10k, ePix100, JF smalls for test in lab Characterize, Noise verteen regenerative high attracting in transition regions
		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 RIXS-CCD noise vs. temp
		◦ Analysis
		 Gather and process relevant commissioning data for Mp travellers on Confluence. Solid pedestals
		 Solid pedesials 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 (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/II 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.
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							Values				
					_		KCST			Remaining	
			PA Proj_Act		_	TM Desc 🗐			TUALS	Balance	
			10918-A4001	DET Dist Exp Support	M8		\$7	'	\$7	(\$0)	
			16152-A4001	ePix Support	M8		\$105		\$107	(\$2)	
			16158-A4001	Other Detector Support	M8		\$30		\$2	\$28	
			16287-A4001	DET Department Management	M8		\$5		\$3	\$1	
			16826-A4001	DET Department Research	M8		\$47	'	\$3	\$44	
			16159-A4001	DET Dept Infrastruct & Dev Detector Program Management		ks .	\$112		\$101	\$11 (\$6)	
			17341-A4001			ks			\$6		
			17439-A4001	DET Department OIP Projects	M8	ks	\$22			\$22	
							32	В	229	\$99	
			 Labor snapsh 	Labor snapshot (June actuals): Values							
							KCST			Remaining	
			PA Proj Act	PA Activity Desc	-	LSTM Desc	T BA 1.2	2	ACTUAL	S Balance	
			16152-A400	1 ePix Support		Shop Servi	ces	\$87	\$8	36 \$	
			16152-A400	1 ePix Support		SLAC Labor		\$1	Ş	\$1 (\$	
			16158-A400	1 Other Detector Support		Shop Servi	ces	\$10	\$4	40 (\$ 3	
			16158-A400	1 Other Detector Support		SLAC Labor	·	\$110	\$8	31 \$2	
			16253-A400	1 C-S PAD Support		Shop Servi	ces	\$3		\$	
			16253-A400	1 C-S PAD Support		SLAC Labor		\$0	Ş	so \$	
			18303-A400	1 Jungfrau Support		Shop Servi	ces	\$3		\$	
			16287-A400	1 DET Department Management		Shop Servi	ces	\$52	\$4	14 \$	
			16287-A400	1 DET Department Management		SLAC Labor		\$209	\$21	l5 (\$	
			16826-A400	1 DET Department Research		Shop Servi	ces	\$28		\$2	
			16826-A400	1 DET Department Research		SLAC Labor		\$208	\$17	76 \$3	
			16159-A400	1 DET Dept Infrastruct & Dev		Shop Servi	ces	\$72	\$13	36 (\$ 6	
			16159-A400	1 DET Dept Infrastruct & Dev		SLAC Labor	· .	5164	\$16	59 (\$	
			19775-A400	1 Commissioning - DET		SLAC Labor	·	\$23		\$7 \$1	
			17341-A400	1 Detector Program Management		SLAC Labor	· .	327	\$27		
			17800-A400	1 Jungfrau Detectors		SLAC Labor	·	\$1	Ş	\$1 (\$	
			19453-A400	1 ePixM Shingle-Tiling Concept		Shop Servi	ces	\$1	\$	\$6 (\$	
			18836-A400	v		Shop Servi	ces	\$20		\$2	
			18836-A400	1 L2S-I-DET - Planning		SLAC Labor		\$9		\$	
			19733-A400	, ,		SLAC Labor		\$2		\$8 (\$	
			19734-A400			SLAC Labor		\$1		\$1 (\$	
			17439-A400	· · · ·		Shop Servi		\$26		\$2 \$2	
			17439-A400	1 DET Department OIP Projects		SLAC Labor	·	\$78	\$7	75 \$	
								1544	4.0	34 \$17	
								1511	13	34 \$17	
5 min	Review ASC First Projects	all	Coordinate/update	lab schedule.							
10 min	Any other busine ss										

Action items: