				WD3 V4/U FII 3/ II	10/13								
ID WBS Task Name	Type		# Prototype Spares		Ltotal	Material	Mtotal	Total		Prototypes		Total Infrastructures	Total Capital Equipments
1 1 1 HPS		33,128.6 hrs	0 0	\$1,366,880.14	\$1,761,144.08	\$1,039,083.10	\$1,210,638.48	\$2,971,782.56	\$77,915.31	\$20,834.95	\$927,517.86	\$248,127.50	\$1,796,137.20 C
<sup>2</sup> 1.1 1.1 Beamline		1,680 hrs	0 0	\$70,369.92	\$91,480.90	\$100,870.00	\$131,131.00	\$222,611.90	\$0.00	\$0.00	\$0.00	\$5,811.00	
3 1.1.1 Beamline Design		440 hrs	0 0	\$8,966.40	\$11,656.32	\$0.00	\$0.00	\$11,656.32	\$0.00	\$0.00	\$0.00	\$0.00	\$11,656.32 Co
MD Hall-B		120 hrs	0 0	\$8,966.40	\$11,656.32	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	
Ken Moffeit (Phys) Stepan Stepanyan (Phys)	+	160 hrs	0 0	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
4 1.1.2 Beamline Review	+	160 hrs 0 hrs	0 0	\$0.00 \$0.00	1	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	1	<i>\$0.00</i> \$0.00	7		<i>\$0.00</i> \$0.00	
1.1.2 Dealthille Review	+	128 hrs	0 0	\$0.00		\$7,450.00	\$9,685.00		\$0.00	\$0.00		\$0.00	
5 1.1.3 1.1.3 Frascati beampipe 1  Ken Moffeit (Phys)	+	64 hrs	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	L C
Frascati beampipe 1	1	1	0 0	\$0.00	\$0.00	\$7,450.00	\$0.00 \$9,685.00	\$9,685.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,685.00 <mark>C</mark> 0
Stepan Stepanyan (Phys)		64 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
6 1.1.4 SVT Vacuum Box		248 hrs	0 0	\$18,482.40	\$24,027.12	\$8,640.00	\$11,232.00		\$0.00			\$0.00	
Marco Oriunno (ME)		40 hrs	0 0	\$7,344.00	\$9,547.20 \$14,470.02	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	
Matt Swift (MD)  Ken Moffeit (Phys)	+	80 hrs 64 hrs	0 0	\$11,138.40 \$0.00	\$14,479.92 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Linear Shifts		3	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark> c
Cooling Feedthrough		2	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark> 0
Electron Run Flange Vacuum Flange hardware	+	1	$\frac{ U }{ O }$	\$0.00 \$0.00	\$0.00 \$0.00	\$5,400.00 \$1,080.00	\$7,020.00 \$1,404.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Conflat gaskets			0 0	\$0.00	\$0.00	\$2,160.00	\$2,808.00	\$2,808.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,808.00 Co
Stepan Stepanyan (Phys)		64 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
7 1.1.5 Electron Target		112 hrs	0 0	\$12,790.80	\$16,628.04	\$4,320.00	\$5,616.00		\$0.00			\$0.00	
Marco Oriunno (ME)		40 hrs	0 0	\$7,344.00	\$9,547.20 \$7,000.04	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	
Matt McCulloch (MT) Ken Moffeit (Phys)	+	40 hrs 16 hrs	0 0	40,77000	\$7,080.84 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Electron Target		1	0 0	\$0.00	\$0.00	\$4,320.00	\$5,616.00	\$5,616.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,616.00 <mark>C</mark> c
Stepan Stepanyan (Phys)		16 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark> 0
8 1.1.6 SVT Collimator Protection		176 hrs	U C	\$9,531.84	\$12,391.39	\$14,900.00	\$19,370.00					\$0.00	
Ken Moffeit (Phys)	+	32 hrs 32 hrs	0 0	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Stepan Stepanyan (Phys) SVT Collimator Protection	+	3∠ NFS 1	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$14,900.00	\$0.00 \$19,370.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
ME Accelerator JLAB		32 hrs	0 0	\$3,554.24	\$4,620.51	\$0.00	\$0.00	\$4,620.51	\$0.00	\$0.00	\$0.00	\$0.00	\$4,620.51 <b>C</b> (
9 1.1.7 Vacuum boam line downstream of chicano	+	80 hrs	0 0	\$0,777700	<i>\$7,770.88</i> \$0.00	\$0.00 \$14,900,00	\$0.00 \$19.370.00		\$0.00 \$0.00	\$0.00		\$0.00 \$0.00	
1.1.7 Vacuum beam iine uownstieam oi chicane		32 hrs	0 (	\$0.00	·	\$14,900.00	\$19,370.00					\$0.00	
Ken Moffeit (Phys) Stepan Stepanyan (Phys)	+	16 hrs	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Vacuum beamline downstream chicane		1	0 0	\$0.00	\$0.00	\$14,900.00	\$19,370.00	\$19,370.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19 370 00 Cd
10 1.1.8 Beam Offset Monitor		128 hrs	0 0	\$7,754.72	\$10,081.14	\$4,470.00	\$5,811.00		\$0.00			\$5,811.00	\$10,081.14 Ca
ME Hall-B		16 hrs	0 0		\$2,310.26	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	\$2,310.26 Cq
MT Hall-B Stepan Stepanyan (Phys)	+	80 hrs 32 hrs	0 0	40,777700	\$7,770.88 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Stepan Stepanyan (Phys) Beam Offset Monitor	INFRA	3∠ NFS 1	$\frac{0}{0}$	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$4,470.00	\$0.00 \$5,811.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$5,811.00	\$0.00 Cc
11 1.1.9 1.1.9 Beam Profile Monitor		64 hrs	0 0	\$0.00	\$0.00	\$10,430.00	\$13,559.00	\$13,559.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13,559.00 <mark>C</mark> c
Ken Moffeit (Phys)		32 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	
Stepan Stepanyan (Phys) Insertable YAG Viewer	+	32 hrs	0 0	φυ.υυ		\$0.00 \$10,430.00	\$0.00 \$13,559.00		\$0.00 \$0.00			\$0.00 \$0.00	
12 1.1.10 1.1.10 Frascati Vacuum Chamber	+	24 hrs	0 0	\$0.00		\$ <i>10,430.00</i> \$14,900.00	\$13,559.00 \$19,370.00					\$ <i>0.00</i> \$0.00	
Frascati beampipe 2	+	1	0 0			\$14,900.00	\$19,370.00		\$0.00	\$0.00		\$0.00	00
Stepan Stepanyan (Phys)		24 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark> 0
13 1.1.11 1.1.11 Photon Dump & Shielding		176 hrs	0 0		\$7,770.88	\$20,860.00	\$27,118.00					\$0.00	\$34,888.88 <mark>C</mark> a
MD Hall-B		80 hrs	0 0	40/111100	\$7,770.88	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	
Photon Dump & Shielding Stepan Stepanyan (Phys)	+	96 hrs	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$20,860.00 \$0.00	\$27,118.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
Stepan Stepanyan (Phys)  14 1.1.12 1.1.12 Installation review	+	96 hrs 0 hrs	0 0	\$ <i>0.00</i> \$0.00		\$0.00 \$0.00	\$ <i>0.00</i> \$0.00					\$ <i>0.00</i> \$0.00	
15 1.1.13 1.1.13 HPS Beamline Installation		152 hrs	0 0	\$6,866.16		\$0.00	\$0.00		\$0.00			\$0.00	
ME Hall-B		8 hrs	0	\$888.56	\$1,155.13	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	\$1,155.13 <b>C</b> 0
MT Hall-B		80 hrs	0 0	\$5,977.60	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00	\$0.00	\$0.00	\$7,770.88 <mark>C</mark> c
Ken Moffeit (Phys) Stepan Stepanyan (Phys)	+	32 hrs 32 hrs	0 0	40.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	
	+	0 hrs	0 0	\$0.00		\$0.00 \$0.00	\$0.00						
1.1.14 Beamline Installed 0 hrs 0 0 \$0.00													
				Page 1									

ID	WBS	Task Name	Type Wo		# Spares	#Prototype	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital D
17 1	1.2	1.2 SVT	!	311 hrs	Opaies (	0 0	\$346,316.76	\$451,984.75	\$160,671.00	\$204,194.20	\$656,178.95	\$8,412.00	\$10,038.00		\$42,614.00	\$538,737.51 C
18	1.2.1	1.2.1 SVT Design Review		0 hrs	(	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
19	1.2.2	1.2.2 Layers 1-3		,060 hrs	(	0 0	\$53,305.20	\$66,193.92	\$26,960.00	\$37,104.00	\$103,297.92	\$0.00	\$0.00	\$0.00	\$0.00	\$103,297.92 C
		Marco Oriunno (ME)		80 hrs	0	0	\$14,688.00	\$17,625.60	\$0.00	\$0.00	\$17,625.60	\$0.00			\$0.00	\$17,625.60 C
1		Matt Swift (MD) Matt McCulloch (MT)		160 hrs 120 hrs	0	, ,	\$22,276.80 \$16,340.40	\$28,959.84 \$19,608.48	\$0.00 \$0.00	\$0.00 \$0.00	\$28,959.84 \$19,608.48	\$0.00 \$0.00			\$0.00 \$0.00	\$28,959.84 C \$19,608.48 C
1		Assembly Fixture		1201113	0	,	\$10,340.40	\$19,008.48	\$1,200.00	\$1,440.00	\$1,440.00	\$0.00			\$0.00	\$1,440.00 C
		Tensioners		8	0	0	\$0.00	\$0.00	\$12,960.00	\$18,144.00	\$18,144.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,144.00 C
		U Support Cables Fixtures		2	0	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$10,800.00 \$2,000.00	\$15,120.00 \$2,400.00	\$15,120.00 \$2,400.00	\$0.00 \$0.00			\$0.00 \$0.00	\$15,120.00 <b>C</b> \$2,400.00 <b>C</b>
		Tim Nelson (Phys)		350 hrs	0	0 0	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
20	1.2.2	Per Hansson (Phys)		350 hrs	0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00 C
	1.2.3	1.2.3 Layer 1-3 Ready		0 hrs	-	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00 C
21 1	1.2.4	1.2.4 Layers 4-6		,400 hrs	(	0 0	\$77,785.20	\$106,671.60	\$42,470.00	\$59,058.00	\$165,729.60	\$7,896.00			\$0.00	\$147,795.60 C
-		Marco Oriunno (ME) Matt Swift (MD)		160 hrs 160 hrs	0	0 0	\$29,376.00 \$22,276.80	\$41,126.40 \$28,959.84	\$0.00 \$0.00	\$0.00 \$0.00	\$41,126.40 \$28,959.84	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$41,126.40 <b>C</b> \$28,959.84 <b>C</b>
1		Matt McCulloch (MT)		160 hrs	0	0 0	\$21,787.20	\$30,502.08	\$0.00	\$0.00	\$20,959.04	\$0.00			\$0.00	\$20,939.84 C \$30,502.08 C
		Tung Phan (ET)		40 hrs	0	0 0	\$4,345.20	\$6,083.28	\$0.00	\$0.00	\$6,083.28	\$0.00			\$0.00	\$6,083.28 C
1		Assembly Fixture Wirebonding Fixture		5	2	2 2	\$0.00 \$0.00	\$0.00 \$0.00	\$6,000.00 \$3,060.00	\$8,400.00 \$4,284.00	\$8,400.00 \$4,284.00	\$3,360.00 \$0.00	\$3,360.00 \$2,142.00		\$0.00 \$0.00	\$1,680.00 <b>C</b> \$2,142.00 <b>C</b>
		Tensioners		8	2	2 2	\$0.00	\$0.00	\$12,960.00	\$18,144.00	\$18,144.00	\$4,536.00	\$4,536.00	\$9,072.00	\$0.00	\$9,072.00 <mark>C</mark>
		U Support		2	0	, 0	\$0.00	\$0.00	\$10,800.00	\$15,120.00	\$15,120.00	\$0.00			\$0.00	\$15,120.00 C
1		Cables Fixtures Tim Nelson (Phys)		440 hrs	0	, ,	\$0.00 \$0.00	<i>\$0.00</i> <i>\$0.00</i>	<i>\$2,000.00</i> <i>\$0.00</i>	\$2,400.00 \$0.00	<i>\$2,400.00</i> <i>\$0.00</i>	\$0.00 \$0.00			\$0.00 \$0.00	\$2,400.00 C \$0.00 C
		Per Hansson (Phys)		440 hrs	0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark>
		FNAL Composite  Kapton passivation		1	0	, ,	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$7,650.00	\$0.00 \$10,710.00	\$0.00 \$10,710.00	\$0.00 \$0.00			\$0.00 \$0.00	\$0.00 C \$10,710.00 C
22	1.2.5	1.2.5 Layer 4-6 Ready		0 hrs	(	0 0	\$0.00	\$0.00	\$7,030.00	\$10,710.00	\$10,710.00	\$0.00			\$0.00	\$10,710.00
23	1.2.6	1.2.6 Hybrids Assembly & Wirebonding		0 hrs	(	0 0	\$0.00	\$0.00	\$27,000.00	\$27,000.00	\$27,000.00	\$0.00			\$0.00	\$27,000.00
1	-	Subcontract Santa Cruz		1		0 0	\$0.00	\$0.00	\$27,000.00	\$27,000.00	\$27,000.00	\$0.00			\$0.00	\$27,000.00 C
24	1.2.7	1.2.7 C-Support		321 hrs	(	0 0	\$21,579.12	\$25,894.94	\$2,160.00	\$2,592.00	\$28,486.94	\$0.00			\$0.00	\$28,486.94
·		Marco Oriunno (ME)		45 hrs	0	0 0	\$8,262.00	\$9,914.40	\$0.00	\$0.00	\$9,914.40	\$0.00			\$0.00	\$9,914.40 C
		Matt Swift (MD)		80 hrs	0	, 0	\$11,138.40	\$13,366.08	\$0.00	\$0.00	\$13,366.08	\$0.00	\$0.00	\$0.00	\$0.00	\$13,366.08 C
1		Matt McCulloch (MT) C-support		16 hrs	0	0 0	<i>\$2,178.72</i> <i>\$0.00</i>	\$2,614.46 \$0.00	\$0.00 \$2,160.00	\$0.00 \$2,592.00	\$2,614.46 \$2,592.00	\$0.00 \$0.00			\$0.00 \$0.00	\$2,614.46 C \$2,592.00 C
		Tim Nelson (Phys)		90 hrs	0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
25	1.2.8	Per Hansson (Phys)		<i>90 hrs</i> 248 hrs	0	0 0	<i>\$0.00</i> \$18,360.00	<i>\$0.00</i> \$25,704.00	\$0.00	<i>\$0.00</i> \$5,215.00	\$0.00	<i>\$0.00</i> \$0.00			<i>\$0.00</i> \$0.00	\$0.00 C
20	1.4.0	1.2.8 DAQ Support/Cooling			(	0 0			\$3,725.00		\$30,919.00					\$30,919.00 C
-		Marco Oriunno (ME) Matt Swift (MD)		40 hrs	0	0 0	\$7,344.00 \$5,569.20	\$10,281.60 \$7,796.88	\$0.00 \$0.00	\$0.00 \$0.00	\$10,281.60 \$7,796.88	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$10,281.60 <mark>C</mark> \$7,796.88 <b>C</b>
		Matt McCulloch (MT)		40 hrs	0	0 0	\$5,446.80	\$7,625.52	\$0.00	\$0.00	\$7,625.52	\$0.00	\$0.00	\$0.00	\$0.00	\$7,625.52 <b>C</b>
1		Tim Nelson (Phys) Per Hansson (Phys)		64 hrs	0	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00			\$0.00 \$0.00	\$0.00 C \$0.00 C
		DAQ Support		64 hrs	0	-	\$0.00	\$0.00	\$3,725.00	\$5,215.00	\$5,215.00	\$0.00			\$0.00	\$5,215.00 C
26	1.2.9	1.2.9 Baseplate		440 hrs	(	0 0	\$18,360.00	\$22,032.00	\$5,400.00	\$6,480.00	\$28,512.00	\$0.00			\$0.00	\$28,512.00 C
		Marco Oriunno (ME)		40 hrs	0	0 0	\$7,344.00	\$8,812.80	\$0.00	\$0.00	\$8,812.80	\$0.00			\$0.00	\$8,812.80 C
·——		Matt Swift (MD)  Matt McCulloch (MT)		40 hrs 40 hrs	0	0 0	\$5,569.20 \$5,446.80	\$6,683.04 \$6,536.16	\$0.00 \$0.00	\$0.00 \$0.00	\$6,683.04 \$6,536.16	\$0.00 \$0.00			\$0.00 \$0.00	\$6,683.04 C \$6,536.16 C
		Baseplate		1	0	-	\$3,440.80	\$0,330.10	\$5,400.00	\$6,480.00	\$6,480.00	\$0.00			\$0.00	\$6,480.00 C
		Tim Nelson (Phys)		160 hrs	0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
27	1.2.10	Per Hansson (Phys)		<i>160 hrs</i> 234 hrs	0	0 0	<i>\$0.00</i> \$10,673.28	<i>\$0.00</i> \$12,807.94	<i>\$0.00</i> \$4,320.00	<i>\$0.00</i> \$5,184.00	<i>\$0.00</i> \$17,991.94	<i>\$0.00</i> \$0.00			<i>\$0.00</i> \$0.00	\$0.00 <mark>C</mark> \$17,991.94
		1.2.10 Motion Levers  Marco Oriunno (ME)		10 hrs		0 0	\$1,836.00	\$2,203.20	\$0.00	\$0.00	\$2,203.20	\$0.00			\$0.00	\$2,203.20 C
		Matt Swift (MD)		40 hrs	0	0 0	\$5,569.20	\$6,683.04	\$0.00	\$0.00	\$6,683.04	\$0.00			\$0.00	\$6,683.04 C
		Matt McCulloch (MT)		24 hrs	0	0 0	\$3,268.08	\$3,921.70	\$0.00	\$0.00	\$3,921.70	\$0.00	\$0.00	\$0.00	\$0.00	\$3,921.70 C
		Flex links Tim Nelson (Phys)		80 hrs	0	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	\$0.00 \$0.00	\$0.00 \$0.00	\$4,320.00 \$0.00	\$5,184.00 \$0.00	\$5,184.00 \$0.00	\$0.00 \$0.00			\$0.00 \$0.00	\$5,184.00 C \$0.00 C
		Per Hansson (Phys)		80 hrs	0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
28	1.2.11	1.2.11 Vacuum Flanges		304 hrs	(	0 0	\$40,269.60	\$56,377.44	\$800.00	\$880.00	\$57,257.44	\$0.00			\$0.00	\$880.00 C
		Marco Oriunno (ME)	OP OR	40 hrs	0	0	\$7,344.00	\$10,281.60	\$0.00	\$0.00	\$10,281.60	\$0.00			\$0.00	\$0.00 C
		Matt Swift (MD)	OP	80 hrs	0	0	\$11,138.40	\$15,593.76	\$0.00	\$0.00	\$15,593.76	\$0.00	\$0.00	\$15,593.76	\$0.00	\$0.00 C
							Page 2									

					WB0 V4701113/	10/13								
ID WBS Tas	sk Name	Туре	110	# Prototype	e Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes		Total Infrastructures	Total Capital Equipments
	Matt McCulloch (MT)	OP	160 hrs	0 0	\$21,787.20	\$30,502.08	\$0.00	\$0.00		\$0.00		\$30,502.08	\$0.00	
	Tim Nelson (Phys)		12 hrs	0 0	\$0.00		\$0.00	\$0.00		\$0.00			\$0.00	
	Per Hansson (Phys)		12 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
29 1.2.12	8" CF Flange		224 hrs	0 0	\$0.00 \$14,767.56	<i>\$0.00</i> \$17,721.07	<i>\$800.00</i> \$15,056.00	<i>\$880.00</i> \$18,067.20		<i>\$0.00</i> \$516.00			<i>\$0.00</i> \$0.00	
25 1.2.12	1.2.12 Shipping Crates			0										U
	Marco Oriunno (ME) Matt Swift (MD)		12 hrs 12 hrs	0 0	\$2,203.20 \$1,670.76	\$2,643.84 \$2,004.91	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00			\$0.00 \$0.00	
	Matt McCulloch (MT)		80 hrs	0 0		\$13,072.32	\$0.00	\$0.00		\$0.00			\$0.00	
	Tim Nelson (Phys)		60 hrs	0 0			\$0.00	\$0.00		\$0.00			\$0.00	
	Per Hansson (Phys)		60 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
	Crates		2	0 0	\$0.00	\$0.00	\$10,756.00	\$12,907.20		\$0.00			\$0.00	
30 1.2.13	Half-Module Shipping Box		744 hrs	2 0	¥0,00	<i>\$0.00</i> \$82,143.36	<i>\$4,300.00</i> \$32,780.00	<i>\$5,160.00</i> \$42,614.00		<i>\$516.00</i> \$0.00			<i>\$0.00</i> \$42,614.00	
00 1.2.10	1.2.13 Integration and testing at SLAC  Marco Oriunno (ME)		80 hrs	0 (	\$14,688.00	\$19,094.40	\$0.00	\$0.00		\$0.00			\$0.00	U
	Matt McCulloch (MT)		320 hrs	0 0	\$14,000.00	\$19,094.40 \$56,646.72	\$0.00	\$0.00		\$0.00			\$0.00 \$0.00	
	Survey Technician SLAC		24 hrs	0 0	\$4,924.80	\$6,402.24	\$0.00	\$0.00		\$0.00			\$0.00	
	Tim Nelson (Phys)		160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
	Per Hansson (Phys)	INICOA	160 hrs	0 0	ψ0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
	Chiller Equipment for chiller Control	INFRA INFRA	1	$\frac{0}{0}$	\$0.00 \$0.00	\$0.00 \$0.00	\$29,800.00 \$2,980.00	\$38,740.00 \$3,874.00		\$0.00 \$0.00			\$38,740.00 \$3,874.00	
31 1.2.14	1.2.14 SVT tested and ready for shipment	IIVI IVA	16 hrs	0 0	\$0.00		\$2,900.00						\$0.00	
	Tim Nelson (Phys)		8 hrs	0 (	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	<u>U</u>
	Per Hansson (Phys)		8 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
32 1.2.15	1.2.15 Integration at Jlab		320 hrs	0 (	\$28,029.60	\$36,438.48	\$0.00	\$0.00	\$36,438.48	\$0.00	\$0.00	\$0.00	\$0.00	\$36,438.48 C
	Marco Oriunno (ME)		80 hrs	0 0	\$14,688.00	\$19,094.40	\$0.00	\$0.00		\$0.00			\$0.00	
	Ryan Herbst (EE)		80 hrs	0 0	\$13,341.60	\$17,344.08	\$0.00	\$0.00		\$0.00			\$0.00	
	Tim Nelson (Phys) Per Hansson (Phys)		80 hrs	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00			\$0.00 \$0.00	
33 1.2.16	1.2.16 SVT Ready For Installation		0 hrs	0 0	\$0.00		\$0.00						\$0.00	
34 1.3	1.3 SVT DAQ		3,972.8 hrs	0 (	\$341,554.16		\$264,406.20			\$69,503.31	\$10,796.9		\$161,765.00	U
35 1.3.1	1.3.1 FE Boards		504 hrs	0 (	\$60,037.20	\$84,052.08	\$45,853.80	\$64,195.32	\$148,247.40	\$33,090.50	\$3,676.72	\$36,767.22	\$0.00	\$111,480.18 C
	Tim Nelson (Phys)		72 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
	Per Hansson (Phys)		72 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			\$0.00	
36 1.3.1.1	1.3.1.1 ADC ADC		0 hrs <i>80</i>	36 4	\$0.00 \$0.00		\$5,760.00 <i>\$5,760.00</i>	\$8,064.00 \$8,064.00		\$3,628.80 <i>\$3,628.80</i>			\$0.00 \$0.00	
37 1.3.1.2	1.3.1.2 FPGA		0 hrs	0 (	\$0.00		\$10,756.00			\$5,020.00			\$0.00	
	FPGA		20	9 7	\$0.00		\$10,756.00	\$15,058.40	\$15,058.40	\$6,776.28	\$752.92	\$7,529.20	\$0.00	\$7,529.20 Co
38 1.3.1.3	1.3.1.3 Preamps		0 hrs	0 (	\$0.00		\$2,016.00			\$1,270.08			\$0.00	
20 1214	Preamp 1.3.1.4 Connector		200	90 10			\$2,016.00	\$2,822.40	\$2,822.40	\$1,270.08			\$0.00	
39 1.3.1.4	Connectors		0 hrs 20	9 1	\$0.00 \$0.00		\$430.20 <i>\$430.20</i>	\$602.28 <i>\$602.28</i>	\$602.28 <i>\$602.28</i>	\$271.03 <i>\$271.03</i>			\$0.00 <i>\$0.00</i>	\$301.14 C
40 1.3.1.5	1.3.1.5 Power		0 hrs	0	\$0.00	\$0.00	\$1,075.60			\$677.63	\$75.2	9 \$752.92	\$0.00	
	Power		20	9 1	\$0.00	\$0.00	\$1,075.60	\$1,505.84		\$677.63			\$0.00	\$752.92 C
41 1.3.1.6	1.3.1.6 Board <i>Board</i>		0 hrs 20	0 (	\$0.00		\$21,512.00			\$13,552.56 <i>\$13,552.56</i>			\$0.00	
42 1.3.1.7	1.3.1.7 Assembly		0 hrs	0 (	\$0.00 \$0.00		<i>\$21,512.00</i> \$4,304.00	<i>\$30,116.80</i> \$6,025.60		\$13,332.30 \$2,711.52			<i>\$0.00</i> \$0.00	
	Assembly		20	9	\$0.00	\$0.00	\$4,304.00	\$6,025.60	\$6,025.60	\$2,711.52	\$301.28	\$3,012.80	\$0.00	\$3,012.80 C
43 1.3.1.8	1.3.1.8 Schematic		120 hrs	0 (	\$20,012.40	\$28,017.36	\$0.00	\$0.00	\$28,017.36	\$0.00	\$0.00	\$0.00	\$0.00	\$28,017.36 <b>C</b>
44 1.3.1.9	Ben Reese (EE) 1.3.1.9 Firmware		120 hrs 160 hrs	0 0	7/	<i>\$28,017.36</i> \$37,356.48	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00		<i>\$0.00</i> \$0.00			<i>\$0.00</i> \$0.00	
1.3.1.8	Ryan Herbst (EE)		160 hrs	0 0		\$37,356.48	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00			\$0.00 \$0.00	\$37.356.48 C
45 1.3.1.10	1.3.1.10 Assembly		40 hrs	0 (	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$4,202.60	\$466.9	\$4,669.56	\$0.00	\$4,669.56 C
	Ben Reese (EE)		40 hrs	18 2	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$4,202.60	\$466.96	\$4,669.56	\$0.00	\$4,669.56 C
46 1.3.1.11	1.3.1.11 Testing Ryan Herbst (EE)		40 hrs 40 hrs	0 (	\$ 0,070,0100	\$9,339.12 <i>\$9,339.12</i>	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>		\$0.00 \$0.00			\$0.00 \$0.00	
47 1.3.2	1.3.2 FE Interface Board		40 hrs	0 0	\$6,670.80 \$8,004.96	\$9,605.95	\$0.00 \$0.00							
	Interface Board		1	1 0	\$0.00	\$0.00	\$2,151.00	\$2,581.20	\$2,581.20	\$2,581.20			\$0.00	\$0.00 C
48 1.3.2.1	1.3.2.1 Schematic		40 hrs	0 (	\$6,670.80	\$8,004.96	\$0.00	\$0.00	\$8,004.96	\$8,004.96	\$0.00	\$8,004.96	\$0.00	\$0.00 C
49 1.3.2.2	Ryan Herbst (EE) 1.3.2.2 Assembly		40 hrs 8 hrs	0 0	40,070.00	<i>\$8,004.96</i> \$1,600.99	\$0.00	<i>\$0.00</i> \$0.00		\$8,004.96			<i>\$0.00</i> \$0.00	
43 1.3.2.2	Ryan Herbst (EE)		8 hrs	8 (	4 1/00 1110	\$1,600.99 \$1,600.99	\$0.00 <i>\$0.00</i>			\$1,600.99 <i>\$1,600.99</i>			\$0.00 \$0.00	
50 1.3.2.3	1.3.2.3 Firmware Design		0 hrs	0 (			\$0.00						\$0.00	\$0.00 C
51 1.3.3	1.3.3 FE Board Tested w/ hybrid		0 hrs	0 (	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00	
i i														

				,	WBS V470 Fri 5/1	0/13								
ID WBS Task Name	Туре	Work	# #Pi Spares	rototype	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De
52 1.3.4 1.3.4 Flange Board		264 hrs		0	\$20,012.40	\$25,349.04	\$18,157.44	\$25,420.42	\$50,769.46	\$6,355.10	\$3,177.55		\$0.00	\$41,236.80
Tim Nelson (Phys)		72 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cd
Per Hansson (Phys)		72 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
53 1.3.4.1 1.3.4.1 Connector		0 hrs	0	0	\$0.00	\$0.00	\$172.80	\$241.92	\$241.92	\$60.48			\$0.00	\$151.20 <b>C</b> c
Connector		16	4	2	\$0.00	\$0.00	\$172.80	\$241.92	\$241.92	\$60.48			\$0.00	\$151.20 Co
54 1.3.4.2 1.3.4.2 Fiber Fiber		0 hrs 16	0	2	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$7,228.00 <i>\$7,228.00</i>	\$10,119.20 <i>\$10,119.20</i>	\$10,119.20 <i>\$10,119.20</i>	\$2,529.80 <i>\$2,529.80</i>			\$0.00 <i>\$0.00</i>	\$6,324.50 <b>C</b> c <i>\$6,324.50</i> <b>C</b> c
55 1.3.4.3 1.3.4.3 Power		0 hrs	0	0	\$0.00	\$0.00	\$430.24	\$602.34	\$602.34	\$150.58			\$0.00	\$376.46 <b>C</b> c
Power		8	2	1	\$0.00	\$0.00	\$430.24	\$602.34	\$602.34	\$150.58			\$0.00	\$376.46 Co
56 1.3.4.4 Board		0 hrs	0	0	\$0.00	\$0.00	\$8,604.80	\$12,046.72	\$12,046.72	\$3,011.68			\$0.00	\$7,529.20 <b>C</b> c
Board		8	2	1	\$0.00	\$0.00	\$8,604.80	\$12,046.72	\$12,046.72	\$3,011.68			\$0.00	\$7,529.20 Co
57 1.3.4.5 1.3.4.5 Assembly  Assembly		0 hrs	0	1	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$1,721.60 <i>\$1,721.60</i>	\$2,410.24 <i>\$2,410.24</i>	\$2,410.24 <i>\$2,410.24</i>	\$602.56 \$602.56			\$0.00 <i>\$0.00</i>	\$1,506.40 <b>C</b> c <i>\$1,506.40</i> <b>C</b> c
58 1.3.4.6 1.3.4.6 Schematic		80 hrs	0	0	\$13,341.60	\$18,678.24	\$0.00	\$0.00	\$18,678.24	\$0.00			\$0.00	\$18,678.24 <b>C</b> c
Ben Reese (EE)		80 hrs	0	0	\$13,341.60	\$18,678.24	\$0.00	\$0.00	\$18,678.24	\$0.00			\$0.00	\$18,678.24 Co
59 1.3.4.7 1.3.4.7 Testing		40 hrs	0	0	\$6,670.80	\$6,670.80	\$0.00	\$0.00	\$6,670.80	\$0.00	\$0.00	\$0.00	\$0.00	\$6,670.80 <b>C</b> c
Ryan Herbst (EE)		40 hrs	0	0	\$6,670.80	\$6,670.80	\$0.00	\$0.00	\$6,670.80	\$0.00			\$0.00	\$6,670.80 Co
60 1.3.5 1.3.5 Flange DAQ Tested 61 1.3.6 1.3.6 DΔΩ		0 hrs 1,640 hrs	0	0	\$0.00 <b>\$173,440.80</b>	\$0.00 <b>\$213,465.60</b>	\$0.00 <b>\$86,049.00</b>	\$0.00 <b>\$120,468.60</b>	\$0.00 <b>\$333,934.20</b>	\$0.00 <b>\$7,529.20</b>			\$0.00 <b>\$91,855.40</b>	\$0.00 <b>C</b> c
1.3.0 DAG			U	U										\$234,549.60 Cc
Tim Nelson (Phys)		300 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00 Cc
Per Hansson (Phys)           62         1.3.6.1           1.3.6.1 SVT COB		300 hrs 0 hrs	0	0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$38,721.00	<i>\$0.00</i> \$54,209.40	<i>\$0.00</i> \$54,209.40	<i>\$0.00</i> \$0.00			<i>\$0.00</i> \$54,209.40	\$0.00 Co
SVT COB	INFRA	3	0	0	\$0.00	\$0.00	\$38,721.00	\$54,209.40	\$54,209.40	\$0.00			\$54,209.40	\$0.00 Cc
63 1.3.6.2 1.3.6.2 RTM		0 hrs	0	0	\$0.00	\$0.00	\$16,134.00	\$22,587.60	\$22,587.60	\$0.00	\$0.00	\$0.00	\$22,587.60	\$0.00 <b>C</b> c
RTM	INFRA	3	0	0	\$0.00	\$0.00	\$16,134.00	\$22,587.60	\$22,587.60	\$0.00	\$0.00		\$22,587.60	\$0.00 Co
64 1.3.6.3 1.3.6.3 Custom Board		0 hrs	0	0	\$0.00	\$0.00	\$16,134.00	\$22,587.60	\$22,587.60	\$7,529.20			\$0.00	\$15,058.40 <b>C</b> c
Custom Board  65 1.3.6.4 1.3.6.4 Crates		0 hrs	7	0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$16,134.00</i> \$10,756.00	<i>\$22,587.60</i> \$15,058.40	<i>\$22,587.60</i> \$15,058.40	<i>\$7,529.20</i> \$0.00			<i>\$0.00</i> \$15,058.40	\$15,058.40 Co \$0.00 Co
Crates	INFRA	2	0	0	\$0.00 \$0.00	\$0.00 \$0.00	\$10,756.00	\$15,058.40 \$15,058.40	\$15,058.40	\$0.00 \$0.00			\$15,056.40 \$15,058.40	\$0.00 Cc
66 1.3.6.5 1.3.6.5 Fiber Cables	7,0101	0 hrs	0	0	\$0.00	\$0.00	\$4,304.00	\$6,025.60	\$6,025.60	\$0.00		\$0.00	\$0.00	\$6,025.60 <b>C</b> 0
Fiber Cables		16	0	0	\$0.00	\$0.00	\$4,304.00	\$6,025.60	\$6,025.60	\$0.00	\$0.00	\$0.00	\$0.00	\$6,025.60 Co
67 1.3.6.6 Schematic		160 hrs	0	0	\$26,683.20	\$37,356.48	\$0.00	\$0.00	\$37,356.48	\$0.00			\$0.00	\$37,356.48 <b>C</b> c
Ben Reese (EE)  68 1.3.6.7 1.3.6.7 Firmware		<i>160 hrs</i> 320 hrs	0	0	<i>\$26,683.20</i> \$53,366.40	<i>\$37,356.48</i> \$64,039.68	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$37,356.48</i> \$64,039.68	<i>\$0.00</i> \$0.00			<i>\$0.00</i> \$0.00	\$37,356.48 Cc \$64,039.68 Cc
Ryan Herbst (EE)		320 nrs 160 hrs	0	0	\$53,366.40 \$26,683.20	\$64,039.68 \$37,356.48	\$0.00 \$0.00	\$0.00 \$0.00	\$64,039.68 \$37,356.48	\$0.00 \$0.00			\$0.00 \$0.00	\$64,039.68 Cc \$37,356.48 Cc
Ben Reese (EE)		160 hrs	0	0	\$26,683.20	\$26,683.20	\$0.00	\$0.00	\$26,683.20	\$0.00			\$0.00	\$26,683.20 <b>C</b> c
69 1.3.6.8 1.3.6.8 Software		320 hrs	0	0	\$53,366.40	\$64,039.68	\$0.00	\$0.00	\$64,039.68	\$0.00	\$0.00	\$0.00	\$0.00	\$64,039.68 <b>C</b> c
Ryan Herbst (EE)		160 hrs	0	0	\$26,683.20	\$37,356.48	\$0.00	\$0.00	\$37,356.48	\$0.00			\$0.00	\$37,356.48 <b>C</b> c
Ben Reese (EE)		160 hrs	0	0	\$26,683.20 \$40,024.90	\$26,683.20 \$49,000.76	\$0.00	\$0.00	\$26,683.20 \$49,000.76	\$0.00			\$0.00	\$26,683.20 Cc
70 1.3.6.9 1.3.6.9 Testing  Ryan Herbst (EE)		240 hrs 120 hrs	0	0	\$40,024.80 <i>\$20,012.40</i>	\$48,029.76 <i>\$28,017.36</i>	\$0.00 \$0.00	\$0.00 \$0.00	\$48,029.76 <i>\$28,017.36</i>	\$0.00 \$0.00			\$0.00 \$0.00	\$48,029.76 <b>C</b> c \$28,017,36 <b>C</b> c
Ben Reese (EE)		120 hrs	0	0	\$20,012.40	\$20,017.30	\$0.00	\$0.00	\$20,012.40	\$0.00			\$0.00	\$28,017.36 Cc \$20,012.40 Cc \$0.00 Cc
71 1.3.7 1.3.7 DAQ Full system Test		0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <b>C</b> c
72 1.3.8 1.3.8 Hybrid		1,196.8 hrs	0	0	\$40,024.80	\$48,029.76	\$21,386.16	\$25,663.39	\$73,693.15	\$7,128.72	\$1,425.74	\$8,554.46	\$0.00	\$65,138.69 Co
Tim Nelson (Phys)		158.4 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 Cc
Per Hansson (Phys)		158.4 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>Co</mark> \$7,096.90 <b>Co</b>
73 1.3.8.1 1.3.8.1 Hybrid Misc Part		0 hrs	0	0	\$0.00	\$0.00	\$8,871.12	\$10,645.34	\$10,645.34	\$2,957.04			\$0.00	\$7,096.90 <b>C</b> c
Hybrid Misc Part APV25		36 180	10 50	10	\$0.00 \$0.00	\$0.00 \$0.00	\$2,904.12 \$5,967.00	\$3,484.94 \$7,160.40	\$3,484.94 \$7,160.40	\$968.04 \$1,989.00		\$1,161.65 \$2,386.80	\$0.00 \$0.00	\$2,323.30 <mark>C</mark> 0 \$4,773.60 <b>C</b> 0
74 1.3.8.2 1.3.8.2 Hybrid Board		0 hrs	0	0	\$0.00	\$0.00	\$7,744.32	\$9,293.18	\$9,293.18	\$1,989.00			\$0.00	\$6,195.46 <b>C</b> 0
Hybrid Board		36	10	2	\$0.00	\$0.00	\$7,744.32	\$9,293.18	\$9,293.18	\$2,581.44	\$516.29	\$3,097.73	\$0.00	\$6,195.46 Co
75 1.3.8.3 1.3.8.3 Hybrid Assembly		0 hrs	0	0	\$0.00	\$0.00	\$4,770.72	\$5,724.86	\$5,724.86	\$1,590.24	\$318.05	\$1,908.29	\$0.00	\$3,816.58 <b>C</b> c
Hybrid Assembly		36	10	2	\$0.00	\$0.00	\$4,770.72	\$5,724.86	\$5,724.86	\$1,590.24			\$0.00	\$3,816.58 Co
76 1.3.8.4 1.3.8.4 Schematic  Ryan Herbst (EE)		80 hrs	0	0	\$13,341.60 <i>\$13,341.60</i>	\$16,009.92 <i>\$16,009.92</i>	\$0.00 \$0.00	\$0.00 <i>\$0.00</i>	\$16,009.92 \$16,009.92	\$0.00 \$0.00			\$0.00 <i>\$0.00</i>	\$16,009.92 <b>C</b> c <i>\$16,009.92</i> <b>C</b> c
77 1.3.8.5 1.3.8.5 Assembly		120 hrs	0	0	\$13,341.60	\$10,009.92	\$0.00	\$0.00	\$10,009.92	\$0.00			\$0.00	\$76,009.92 CC \$24,014.88 Cc
Ryan Herbst (EE)		60 hrs	0	0	\$10,006.20	\$12,007.44	\$0.00	\$0.00	\$12,007.44	\$0.00			\$0.00	\$12,007.44 Co
Ben Reese (EE)		60 hrs	0	0	\$10,006.20	\$12,007.44	\$0.00	\$0.00	\$12,007.44	\$0.00	\$0.00	\$0.00	\$0.00	\$12,007.44 <mark>Cc</mark> \$12,007.44 <mark>Cc</mark>
78 1.3.8.6 Board Testing		40 hrs	0	0	\$6,670.80	\$8,004.96	\$0.00	\$0.00	\$8,004.96	\$0.00			\$0.00	\$8,004.96 <b>C</b> c
Ben Reese (EE)		40 hrs	0	0	\$6,670.80	\$8,004.96	\$0.00	\$0.00	\$8,004.96	\$0.00			\$0.00	\$8,004.96 Cc
79 1.3.8.7 1.3.8.7 Hybrid qualification  Per Hansson (Phys)		320 hrs 160 hrs	0	0	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>	\$0.00 <i>\$0.00</i>			\$0.00 <i>\$0.00</i>	\$0.00 <b>C</b> c \$0.00 <b>C</b> c
Sho Uemura (Phys)		160 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00 Cc
80 1.3.8.8 1.3.8.8 Single Hybrid qualification		0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00 <b>C</b> c
81 1.3.8.9 1.3.8.9 Hybrids Testing		320 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00	\$0.00 <b>C</b>

ID WBS Task Name	Type	Work	# #Prototype	Labor	Ltotal	Material	Mtotal	Total	Snarge			י ובזחו ן	
D 1 1 / 5		Sp	ares		Liotai	Material	Witotal	i Otal	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De Equipments
Per Hansson (F	Phys)	160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Sho Uemura (P		160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
82 1.3.9 1.3.9 Flex Cable		280 hrs	0 0	\$33,354.00	\$41,358.96	\$9,032.16	\$12,645.02	\$54,003.98	\$0.00	\$0.00	\$0.00	\$0.00	\$54,003.98
Tim Nelson (Phys)		40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
Per Hansson (Phys)		40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
83 1.3.9.1 1.3.9.1 Misc Parts		0 hrs	0 0	ψ0.00	\$0.00	\$1,290.72	\$1,807.01	\$1,807.01	\$0.00				
SVT Cable Misc	parts	24	0 0	φ0.00	\$0.00	\$1,290.72	\$1,807.01	\$1,807.01	\$0.00	\$0.00			
84 1.3.9.2 1.3.9.2 Cable SVT Cable		0 hrs 24	0 0	ψ0.00	\$0.00 <i>\$0.00</i>	\$5,160.00 \$5,160.00	\$7,224.00 \$7,224.00	\$7,224.00 <i>\$7,224.00</i>	\$0.00 \$0.00	\$0.00 <i>\$0.00</i>			
85 1.3.9.3 1.3.9.3 Assembly		0 hrs	0 0		\$0.00	\$2,581.44	\$3,614.02	\$3,614.02	\$0.00	\$0.00			
ST Cable Assen	nbly	24	0 0	\$0.00	\$0.00	\$2,581.44	\$3,614.02	\$3,614.02	\$0.00	\$0.00			
86 1.3.9.4 1.3.9.4 Schematic		160 hrs	0 0	\$26,683.20	\$32,019.84	\$0.00	\$0.00	\$32,019.84	\$0.00	\$0.00			
Ryan Herbst (El	<u>=</u> )	80 hrs	0 0	7 /	\$18,678.24	\$0.00	\$0.00	\$18,678.24	\$0.00	\$0.00			
Ben Reese (EE) 87 1.3.9.5 1.3.9.5 Testing		80 hrs	0 0	7 /	\$13,341.60	<i>\$0.00</i> \$0.00	\$0.00	\$13,341.60	\$0.00	\$0.00		7	, , , , , , , , , , , , , , , , , , , ,
87 1.3.9.5 1.3.9.5 Testing Ryan Herbst (EL	=)	40 hrs 40 hrs	0 0	Ψ0,070.00	\$9,339.12 <i>\$9,339.12</i>	\$0.00 \$0.00	\$0.00 \$0.00	\$9,339.12 <i>\$9,339.12</i>	\$0.00 \$0.00	\$0.00 \$0.00			
88 1.3.10 1.3.10 Flex Cable w/ hybrid8	FE board	0 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
89 1.3.11 1.3.11 Power Supplies & Ca		0 hrs	0 0		\$0.00	\$58,258.00	\$69,909.60	\$69,909.60	\$0.00	\$0.00			\$0.00 <b>C</b>
SVT LV Unit	INFRA	4	0 0	φ0.00	\$0.00	\$14,216.00	\$17,059.20	\$17,059.20	\$0.00	\$0.00			\$0.00 Co
SVT HV Unit	INFRA	4	0 0	φ0.00	\$0.00	\$30,460.00	\$36,552.00	\$36,552.00	\$0.00	\$0.00			\$0.00 Co
90 1.3.12 Wiener Crate 9. 1.3.12 HV/LV Cables	INFRA	2 40 hrs	0 0	Ψ0.00	\$0.00	<i>\$13,582.00</i> \$25,669.64	<i>\$16,298.40</i> \$33,370.53	<i>\$16,298.40</i> \$42,054.53	<i>\$0.00</i> \$5,793.84	<i>\$0.00</i> \$2,516.93			
90 1.3.12 1.3.12 HV/LV Cables  HV PS cable incl. col	nnector	40 nrs	1 0		\$8,684.00 <i>\$0.00</i>	\$25,669.64	\$33,370.53	\$42,054.53 \$2,990.00	\$5,793.84 \$598.00	\$2,516.93 \$0.00			
HV wire vacuum	m rootor	16	0 0		\$0.00	\$499.20	\$648.96	\$648.96	\$0.00	\$0.00			
HV connector flange	vacuum side	64	16 8		\$0.00	\$13,767.68	\$17,897.98	\$17,897.98	\$4,474.50	\$2,237.25	\$6,711.74	\$0.00	\$11,186.24 Co
HV connector flange		8	2 1	\$0.00	\$0.00	\$1,290.72	\$1,677.94	\$1,677.94	\$419.48	\$209.74			
HV connector FE boo		18	0 0	\$0.00	\$0.00	\$954.00	\$1,240.20	\$1,240.20	\$0.00	\$0.00			
LV PS wire outside v LV PS connector	асии	2,400	400 0 6 0	<b>#0100</b>	\$0.00	\$384.00	\$499.20 \$118.17	\$499.20	\$83.20 \$78.78	\$0.00 \$0.00			
LV PS connector flan	ae side	9	0 0	φυ.υυ	\$0.00 \$0.00	\$90.90 \$90.72	\$118.17 \$117.94	\$118.17 \$117.94	\$78.78	\$0.00			
LV PS connector flan		8	2 1	\$0.00	\$0.00	\$430.40	\$559.52	\$559.52	\$139.88	\$69.94	\$209.82		
LV PS connector FE		9	0 0		\$0.00	\$484.02	\$629.23	\$629.23	\$0.00	\$0.00			
Flange Board		10	0 0	40,00	\$0.00	\$5,378.00	\$6,991.40	\$6,991.40	\$0.00	\$0.00			
SLAC Cable shop		40 hrs	0 0	Ψ0,000.00	\$8,684.00	\$0.00	\$0.00	\$8,684.00	\$0.00	\$0.00			
91 1.4   1.4 ECAL		2,924 hrs	0 0	Ψ27,000.10	\$36,229.02	\$8,940.00	\$11,622.00	\$47,851.02	\$0.00	·			
92 1.4.1 1.4.1 Fix 2-shorted HV	groups on top-left	44 hrs	0 0	\$2,988.80	\$3,885.44	\$0.00	\$0.00	\$3,885.44	\$0.00	\$0.00	\$0.00	\$0.00	\$3,885.44 Co
ET Hall-B JLAB	., .	40 hrs	0 0	\$2,988.80	\$3,885.44	\$0.00	\$0.00	\$3,885.44	\$0.00	\$0.00	\$0.00	\$0.00	
Phy 2 ECAL JLAB		4 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
93   1.4.2   1.4.2 Order new mother	rboard	24 hrs	0 0	\$0.00	\$0.00	\$5,960.00	\$7,748.00	\$7,748.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,748.00 Co
Phy 2 ECAL JLAB		24 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
New Bottom-Left Mo		1	0 0	\$0.00	\$0.00	\$5,960.00	\$7,748.00	\$7,748.00	\$0.00	\$0.00			
94 1.4.3 New motherboard	ds and amplifiers	256 hrs	0 0	\$24,879.68	\$32,343.58	\$0.00	\$0.00	\$32,343.58	\$0.00	\$0.00	\$0.00	\$0.00	C
EE Hall-B JLAB		224 hrs	0 0	Ψ2 1,07 7.00	\$32,343.58	\$0.00	\$0.00	\$32,343.58	\$0.00	\$0.00			
Phy 2 ECAL JLAB		32 hrs	0 0	<b>\$0.00</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00 Co
95 1.4.4 Now pro amplifiers		60 24 hrs	0 0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00			
1.4.4 New pie-ampline	DOALOS		0 0										
Phy 2 ECAL JLAB Ecal Pre-amps		24 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00			
		500 160 hrs	0 0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00			
1.4.3 ASSEMBING LCA	<u> </u>		0 0										
97 1.4.6 1.4.6 Tost and Calibrat	- FI	160 hrs	0 0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00			
	e Ecal	2,080 hrs	0 0										U
Phy 2 ECAL JLAB		160 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Ph1 2 Orsay Phy 1 ECAI JLAB		640 hrs 640 hrs	0 0	¥0,00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00			
Phy 1 Orsay		640 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
98 1.4.7 1.4.7 New mounting sy	stem	336 hrs	0 0	\$0.00	\$0.00	\$2,980.00	\$3,874.00	\$3,874.00	\$0.00				
Phy 2 ECAL JLAB	JUIII	16 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			C
ECAL Mounting Syst	em	101113	0 0	\$0.00	\$0.00	\$2,980.00	\$3,874.00	\$3,874.00	\$0.00	\$0.00			
ME Orsay	-	160 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00 Co
MT Orsay		160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
99 1.4.8 ECAL Ready for	the installation	0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
100 1.5 1.5 TDAQ		1,200 hrs	0 0	\$115,512.80	\$151,055.20	\$10,000.00	\$10,000.00	\$161,055.20	\$0.00	\$0.00	\$0.00	\$10,000.00	\$151,055.20
1.0 10/10													U
				Page 5									

					WDS V4/U FII 3/	10/13								
ID WBS Ta	ask Name	Туре	Work	# Prototype	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital D
101 1.5.1	1.5.1 EPICS information into data stream		160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
	EE DAQ JLAB		160 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
102 1.5.2	1.5.2 Software TDAQ		0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
103 1.5.3	1.5.3 Hardware TDAQ		0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
104 1.5.4			160 hrs	0 0	\$17,771.20	\$21,325.44	\$0.00	\$0.00	\$21,325.44	\$0.00	\$0.00	\$0.00	\$0.00	
	1.5.4 Update firmware on FADC250  Ben Redo (EE)		160 hrs	0 0	\$17,771.20	\$21,325.44	\$0.00	\$0.00		\$0.00				
105 1.5.5	1.5.5 New firmware for cluster finding		320 hrs	0 0	\$35,542.40	\$49,759.36	\$0.00	\$0.00		\$0.00				
	Scott Kenata (EE)		320 hrs	0 0	\$35,542.40	\$49,759.36	\$0.00	\$0.00		\$0.00				U
106 1.5.6	1.5.6 New firmware for SSP		240 hrs	0 0	\$26,656.80	\$37,319.52	\$0.00	\$0.00		\$0.00				
	Ben Redo (EE)		160 hrs	0 0		\$24,879.68	\$0.00	\$0.00		\$0.00				U
	Scott Kenata (EE)		80 hrs	0 0		\$12,439.84	\$0.00	\$0.00		\$0.00				
107 1.5.7	1.5.7 Trigger monitoring tools		320 hrs	0 0	\$35,542.40	\$42,650.88	\$0.00	\$0.00	\$42,650.88	\$0.00	\$0.00	\$0.00	\$0.00	
	Ben Redo (EE)		320 hrs	0 0	\$35,542.40	\$42,650.88	\$0.00	\$0.00	\$42,650.88	\$0.00	\$0.00	\$0.00	\$0.00	\$42,650.88 C
108 1.5.8	1.5.8 TDAQ ready		0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
109 1.5.9	1.5.9 Data Storage  Data Storage Tapes 5TB	INFRA	0 hrs 40	0 0	\$0.00 \$0.00	\$0.00 <i>\$0.00</i>	\$10,000.00 <i>\$10,000.00</i>	\$10,000.00 <i>\$10,000.00</i>	\$10,000.00 <i>\$10,000.00</i>	\$0.00 <i>\$0.00</i>				
110 1.6		IIVFKA	2,008 hrs	0 0	\$75,527.60	\$94,409.50	\$10,000.00	\$39,112.50		\$0.00 \$0.00				
111 1.6.1	1.6 Slow Control		92 hrs	0 0	\$8,885.60	\$11,107.00	\$0.00	\$0.00		\$0.00				U
111 1.0.1	1.6.1 Chiller control programming			0 0										
	Hovanes Hegiyan (Phys) EE Accelerator JLAB		12 hrs 80 hrs	0 0	\$0.00 \$8,885.60	\$0.00 \$11,107.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00				
112 1.6.2	1.6.2 I/O modules for control		80 hrs	0 0	\$0.00	\$0.00	\$22,350.00	\$27,937.50				, , , , , ,		
	I/O Modules for controls	INFRA	1	0 0	\$0.00	\$0.00	\$22,350.00	\$27,937.50		\$0.00				
	Hovanes Hegiyan (Phys)	nu ioi	80 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
113 1.6.3	1.6.3 Sensor readout programming		300 hrs	0 0	\$13,328.40	\$16,660.50	\$0.00	\$0.00	\$16,660.50	\$0.00	\$0.00	\$0.00	\$0.00	\$16,660.50
	Hovanes Hegiyan (Phys)		180 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
	Nerses Gevorgyan (EE)		120 hrs	0 0	\$13,328.40	\$16,660.50	\$0.00	\$0.00		\$0.00				
114 1.6.4	1.6.4 SVT voltage control		138 hrs	0 0	\$13,328.40	\$16,660.50	\$0.00	\$0.00						, L
	Hovanes Hegiyan (Phys)		18 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
115 1.6.5	Nerses Gevorgyan (EE)		<i>120 hrs</i> 118 hrs	0 0	<i>\$13,328.40</i> \$0.00	<i>\$16,660.50</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00		<i>\$0.00</i> \$0.00				
110 1.0.0	1.6.5 ECAL voltage control			0										
	Hovanes Hegiyan (Phys) Nerses Gevorgyan (EE)		78 hrs 40 hrs	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00				
116 1.6.6	1.6.6 SVT motor controls		92 hrs	0 0	\$8,885.60	\$11,107.00	\$0.00							
	Hovanes Hegiyan (Phys)		12 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	
	EE Accelerator JLAB		80 hrs	0 0	\$8,885.60	\$11,107.00	\$0.00	\$0.00	\$11,107.00	\$0.00				\$11,107.00 C
117 1.6.7	1.6.7 Target motor control		46 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00	\$0.00	\$5,553.50	\$0.00	\$0.00	\$0.00	\$0.00	\$5,553.50 C
	Hovanes Hegiyan (Phys)		6 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
110 100	EE Accelerator JLAB		40 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00	\$0.00		\$0.00				\$5,553.50 C
118 1.6.8	1.6.8 Software interlock		142 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00							U
	Hovanes Hegiyan (Phys)		102 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
119 1.6.9	EE Accelerator JLAB		<i>40 hrs</i> 368 hrs	0 0	<i>\$4,442.80</i> \$0.00	<i>\$5,553.50</i> \$0.00	<i>\$0.00</i> \$8,940.00	<i>\$0.00</i> \$11,175.00		<i>\$0.00</i> \$0.00				
	1.6.9 Hardware interlocks  EE Hall-B JLAB		200 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				U
	Hardware Interlock Equipments		200 1115	0 0	\$0.00	\$0.00 \$0.00	\$8,940.00	\$0.00 \$11,175.00		\$0.00				
	Hovanes Hegiyan (Phys)		168 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
120 1.6.10	1.6.10 Beamline control screens		160 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00	\$0.00	\$5,553.50	\$0.00	\$0.00	\$0.00	\$0.00	
	Hovanes Hegiyan (Phys)		120 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
404 4 0 44	Nerses Gevorgyan (EE)		40 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00	\$0.00		\$0.00				\$5,553.50 C
121 1.6.11	1.6.11 EPICS Scalers programing		284 hrs	U (	\$8,885.60	\$11,107.00	\$0.00							
	Hovanes Hegiyan (Phys)		204 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00				
122 1.6.12	Nerses Gevorgyan (EE)		<i>80 hrs</i> 46 hrs	0 0	\$8,885.60 \$4,442.80	<i>\$11,107.00</i> \$5,553.50	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00		<i>\$0.00</i> \$0.00				
122 1.0.12	1.6.12 Alarms configuration			0 0										<u> </u>
	Hovanes Hegiyan (Phys) Nerses Gevorgyan (EE)		6 hrs 40 hrs	0 0	\$0.00 \$4,442.80	\$0.00 \$5,553.50	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00				
123 1.6.13	1.6.13 Archiving of controls		142 hrs	0 0	\$4,442.80	\$5,553.50	\$0.00							
	Hovanes Hegiyan (Phys)		102 hrs	0 0		\$0.00	\$0.00	\$0.00		\$0.00				
	EE Accelerator JLAB		40 hrs	0 0		\$5,553.50	\$0.00	\$0.00		\$0.00				
					-									
					Page 6									

ID	WBS	Task Name	Туре	Work # Spares	*Prototype	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De
124	.7	1.7 Installation & Commissioning		728 hrs	0	\$45,244.80	\$57,936.96	\$0.00	\$0.00	\$57,936.96	\$0.00	\$0.00			
125	.7.1	1.7.1 SVT installation		48 hrs	0 0	\$2,937.60	\$2,937.60	\$0.00	\$0.00	\$2,937.60	\$0.00	\$0.00	\$0.00	\$0.00	\$2,937.60 <b>C</b> c
		Marco Oriunno (ME)		16 hrs (	0	\$2,937.60	\$2,937.60	\$0.00	\$0.00	\$2,937.60	\$0.00				
		Tim Nelson (Phys)		16 hrs (		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
400	7.0	Per Hansson (Phys)	OD	16 hrs (		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
126	.7.2	1.7.2 SVT Commissioning	OP	120 hrs	0	\$6,670.80	\$8,672.04	\$0.00	\$0.00	\$8,672.04	\$0.00	\$0.00	\$8,672.04	\$0.00	
		Ryan Herbst (EE)	OP	40 hrs (	0	\$6,670.80	\$8,672.04	\$0.00	\$0.00	\$8,672.04	\$0.00				
		Tim Nelson (Phys)	OP	40 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
127	7.2	Per Hansson (Phys)	<i>OP</i> OP	40 hrs 0	0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00				
127	.7.3	1.7.3 ECAL Commissioning			0										l C
		Phy 2 ECAL JLAB	OP OP	40 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		MT Orsay ET Orsay	OP OP	40 hrs 0 40 hrs 0	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
128	.7.4	•	OP	320 hrs	) 0	\$28,204.80	\$36,666.24	\$0.00	\$0.00	\$36,666.24	\$0.00			,	
120	.,	1.7.4 TDAQ Commissioning											· ·		C
		Ryan Herbst (EE) EE Hall-B JLAB	OP OP	80 hrs 0	0	\$13,341.60 \$8,885.60	\$17,344.08 \$11,551.28	\$0.00 \$0.00	\$0.00 \$0.00	\$17,344.08 \$11,551.28	\$0.00 \$0.00				
		EE Hall-B JLAB ET Hall-B JLAB	OP OP	80 hrs 0		\$5,977.60	\$11,551.28 \$7,770.88	\$0.00 \$0.00	\$0.00 \$0.00	\$11,551.28	\$0.00 \$0.00				
		Phy 1 JD	OP OP	80 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
129	.7.5	1.7.5 Slow Control Commissioning	OP	120 hrs	0 0	\$7,431.60	\$9,661.08	\$0.00	\$0.00	\$9,661.08	\$0.00				
		EE Hall-B JLAB	OP	40 hrs 0		\$4,442.80	\$5,775.64	\$0.00	\$0.00	\$5,775.64	\$0.00	\$0.00	\$5,775.64	\$0.00	l C
		ET Hall-B JLAB	OP	40 hrs 0	0 0	\$2,988.80	\$3,885.44	\$0.00	\$0.00	\$3,885.44	\$0.00				
		Hovanes Hegiyan (Phys)	OP	40 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
130	.7.6	1.7.6 HPS ready for the beam		0 hrs	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 C
131	.8	1.8 Electron Running		4,160 hrs	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00		L C
132	.8.1	1.8.1 Beamline Commissioning (2014)		320 hrs	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	U
		Ken Moffeit (Phys)		40 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Stepan Stepanyan (Phys)		40 hrs (		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Phy 2 ECAL JLAB Tim Nelson (Phys)		40 hrs 0 40 hrs 0		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
		Per Hansson (Phys)		40 nrs 0 40 hrs 0		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
		Phy 1 M		40 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Phy 1 JD		40 hrs 0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
		Hovanes Hegiyan (Phys)		40 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00 Co
133	.8.2	1.8.2 Detector Commissioning Run (2014)		640 hrs	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				C
		Ken Moffeit (Phys)		80 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Stepan Stepanyan (Phys)		80 hrs (		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Phy 2 ECAL JLAB		80 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Tim Nelson (Phys) Per Hansson (Phys)		80 hrs (		\$0.00 \$0.00	<i>\$0.00</i> <i>\$0.00</i>	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
		Per Hansson (Phys) Phy 1 M		80 hrs 0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Phy 1 JD		80 hrs 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 Co
		Hovanes Hegiyan (Phys)		80 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
134		1.8.3 Data Run 2.2GeV (2014)		0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
135 136	.8.4	1.8.4 Data Run 1.1 GeV (2014)		0 hrs (	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00					
130	.0.0	1.8.5 Beamline recommissioning (2015)			0										U
		Ken Moffeit (Phys)		80 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Stepan Stepanyan (Phys) Phy 2 ECAL JLAB		80 hrs 0	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
		Tim Nelson (Phys)		80 hrs 0	U	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Per Hansson (Phys)		80 hrs 0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
		Phy 1 M		80 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 Co
]		Phy 1 JD		80 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
137	8.6	Hovanes Hegiyan (Phys)		80 hrs (	0 0	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00				
13/	.0.0	1.8.6 Data Run (2015)		2,560 hrs	0										l C
		Ken Moffeit (Phys)		320 hrs (	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Stepan Stepanyan (Phys) Phy 2 ECAL JLAB		320 hrs 0	0 0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
		Tim Nelson (Phys)		320 hrs 0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00				
		Per Hansson (Phys)		320 hrs 0	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Phy 1 M		320 hrs (	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Co
		Phy 1 JD		320 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
		Hovanes Hegiyan (Phys)		320 hrs 0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <mark>C</mark>
						Page 7									

					VVDS V4/U FII 5/ I	10/13								
19.   19.	ID WBS Task Name	Туре			Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes			Total Capital DEquipments
15	138 1.9 1.9 SLAC Travel Meetings			0 0	\$103,963.50	\$124,756.20	\$0.00	\$0.00	\$124,756.20	\$0.00	\$0.00			\$0.00 C
Many Dispare (ME)	a a		160 hrs	0 0	\$6,273.00	\$7.527.60	\$0.00	\$0.00	\$7.527.60	\$0.00	\$0.00	\$7.527.60	\$0.00	\$0.00 C
March   Marc		OP		0 0										\$0.00 C
The Nation (Phys)				0 0										\$0.00 C
March Carl   19 Collector Control Personal Personal Process   19 Collector Control Personal		OP		0 0										\$0.00 C
1.6.2   1.9.2 Collaboration Bending Neverther 2679   0.0   48875   0.0   3   \$18.02.5   \$3.04.02.5   \$3.00   \$3.00   \$1.00		OP	40 hrs	0 0										\$0.00 C
Marco Charger (Mar)	140 1.9.2 1.9.2 Collaboration Meeting November 2013	OP		0 0										
Signate   Sign		OP	40 hrs	0 0			\$0.00							\$0.00 C
The Nation (Phys)		OP	40 hrs	0 0			\$0.00			\$0.00	\$0.00	\$2,295.00		\$0.00 C
Per Printension (Phys)	Ken Moffeit (Phys)	OP	40 hrs	0 0	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
Retail Car   19	Tim Nelson (Phys)	OP	40 hrs	0 0	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
Particular   Par	Per Hansson (Phys)		40 hrs	0 0		\$2,295.00	\$0.00			\$0.00				\$0.00 C
Takashi Melayama (Phys)		-	40 hrs	0 0										\$0.00 C
See Userum (Phys)  Ob Mary 1			40 hrs	0 0	1				1			1	, , , , ,	\$0.00 C
Meth Comban (Phys)				0			-							\$0.00 <mark>C</mark>
Description				0										\$0.00 C
141   1.9.3   1.9.3 Consultation 2 at JAPA				-										\$0.00 C
Marco Channo (ME)		UP		0 0										\$0.00 C
Ren Indefined (Phys)		0.5		0										\$0.00 C
Tim Nelson (Phys)				0 0										\$0.00 C
Famile Car				0										\$0.00 C
142   1.9.4   1.9.4 Collaboration Meeting November 2014				0										\$0.00 C \$0.00 C
Metroc Original (AE)		UP		-										\$0.00 C
Ryan Hebsti (E)		OP		0										\$0.00 C
Kin Mothel (Phys)				0 0										\$0.00 C
Tim Nation (Phys)				0										\$0.00 C
Per Harsson (Phys)		-		-										\$0.00 C
Famila Car   OP				0 0										\$0.00 C
Talashi Manyama (Phys)		OP	40 hrs	0 0										\$0.00 C
Sho Jennia (Phys)	Rental Car 2	OP	40 hrs	0 0	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00 C
Matt Graham (Phys)		OP	40 hrs	0 0	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
Abril Jans (Phys)	Sho Uemura (Phys)		40 hrs	0 0										\$0.00 C
14.5   1.9.5   1.9.5   Collaboration Meeting May 2015   440 hrs   0   0   \$18,233.50   \$21,940.20   \$9.00   \$0.00   \$21,940.20   \$9.00   \$0.00   \$21,940.20   \$9.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$9.00   \$22,950.00   \$9.00   \$9.00   \$9.00   \$22,950.00   \$9.0				0 0			1					, ,		\$0.00 <mark>C</mark>
Marco Oriunno (ME)		OP		U										\$0.00 C
Fyan Herbst (EE)				0										
Men Molfeit (Phys)				-										\$0.00 C
Tim Nelson (Phys)				-										\$0.00 C
Per Hansson (Phys)				0										\$0.00 <b>C</b> \$0.00 <b>C</b>
Rental Car   OP   40hrs 0   0   \$533.50   \$44.20   \$0.00   \$50.00   \$542.00   \$0.00   \$442.00   \$0.00   \$442.00   \$0.00   \$542.00   \$0.0				0 0										\$0.00 C
Rental Car 2				0 0										\$0.00 C
Takashi Maruyama (Phys)				0 0					-	· · · · · · · · · · · · · · · · · · ·				
Sho Uemura (Phys)				0 0										\$0.00 C \$0.00 C
Matt Graham (Phys)				0 0										
John Jaros (Phys)														
144   1.9.6   1.9.6 Collaboration Meeting November 2015   440 hrs   0   0   \$18,283.50   \$21,940.20   \$0.00   \$3.1,940.20   \$0.00   \$0.00   \$2.1,940.20   \$0.00   \$0.00   \$2.295.00   \$0.00   \$0		OP		0 0		\$2,295.00								\$0.00 C
Ryan Herbst (EE)	144 1.9.6 1.9.6 Collaboration Meeting November 2015			0 0	\$18,283.50	\$21,940.20		\$0.00	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00	\$0.00 C
Men Moffeit (Phys)														\$0.00 C
Tim Nelson (Phys)														\$0.00 C
Per Hansson (Phys)				-										\$0.00 C
Rental Car 1				-										\$0.00 C
Rental Car 2		-												\$0.00 C
Takashi Maruyama (Phys)	Kental Car 1	-												\$0.00 <b>C</b> \$0.00 <b>C</b>
Sho Uemura (Phys)         OP         40 hrs         0         \$1,912.50         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00 </td <td></td>														
Matt Graham (Phys)				-										
John Jaros (Phys)				-										\$0.00 C
145       1.9.7       1.9.7 Collaboration Meeting May 2016       440 hrs       0       \$18,283.50       \$21,940.20       \$0.00       \$21,940.20       \$0.00       \$21,940.20       \$0.00         Marco Oriunno (ME)       OP       40 hrs       0       \$1,912.50       \$2,295.00       \$0.00       \$2,295.00       \$0.00       \$2,295.00       \$0.00         Ryan Herbst (EE)       OP       40 hrs       0       \$1,912.50       \$2,295.00       \$0.00       \$0.00       \$2,295.00       \$0.00       \$2,295.00       \$0.00         Ken Moffeit (Phys)       OP       40 hrs       0       \$1,912.50       \$2,295.00       \$0.00       \$0.00       \$2,295.00       \$0.00       \$0.00       \$2,295.00       \$0.00	John Jaros (Phys)			-										
Marco Oriunno (ME)         OP         40 hrs         0         \$1,912.50         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00				-										
Ryan Herbst (EE)         OP         40 hrs         0         \$1,912.50         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00<		OP		-										
Ken Moffeit (Phys)         OP         40 hrs         0         \$1,912.50         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$2,295.00         \$0.00         \$0.00         \$2,295.00         \$0.00 <td></td> <td></td> <td></td> <td>0 0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0.00 C</td>				0 0										\$0.00 C
Tim Nelson (Phys)         OP         40 hrs         0         0         \$1,912.50         \$2,295.00         \$0.00         \$0.00	Ken Moffeit (Phys)	OP	40 hrs	0 0										\$0.00 C
				0 0	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
Rental Car 1   OP   40 hrs   0   0   \$535.50   \$642.60   \$0.00   \$642.60   \$0.00   \$0.00   \$642.60   \$0.00														
	Rental Car 1	│ <i>OP</i>	40 hrs	0 0	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00	)	\$0.00	\$0.00 C

						WBS V470 Fri 5/1	0/13								
ID WBS Ta	ask Name	Туре	Work	# Spares	Prototype	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital D
	Rental Car 2	OP	40 hrs		0	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00 C
	Takashi Maruyama (Phys)	OP	40 hrs	0	0	\$1,912.50	\$2,295.00	\$0.00	\$0.00		\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
	Sho Uemura (Phys)	OP	40 hrs	0	0	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 C
	Matt Graham (Phys)	OP	40 hrs	0	0	\$1,912.50	\$2,295.00	\$0.00	\$0.00		\$0.00				\$0.00 <mark>C</mark>
	John Jaros (Phys)	OP	40 hrs	0	0	\$1,912.50	\$2,295.00	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 <mark>C</mark>
146 <b>1.10</b>	1.10 SLAC Travel for Commissioning and Running		4,080 hrs	0	0	\$112,149.00	\$155,861.10	\$0.00	\$0.00	\$155,861.10	\$0.00	\$0.00	\$129,728.70	\$0.00	\$26,132.40 C
147 1.10.1	1.10.1 Integration and Installation SVT at JLAB		640 hrs	0	0	\$18,666.00	\$26,132.40	\$0.00	\$0.00	\$26,132.40	\$0.00	\$0.00	\$0.00	\$0.00	\$26,132.40 C
	Marco Oriunno (ME)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00				\$3,855.60 C
	Ryan Herbst (EE)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00				\$3,855.60 C
	Tim Nelson (Phys)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00				\$3,855.60 C
	Per Hansson (Phys)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00				\$3,855.60 C
	Rental Car 1		80 hrs	0	0	\$1,071.00	\$1,499.40	\$0.00	\$0.00	\$1,499.40	\$0.00	\$0.00			\$1,499.40 <mark>C</mark>
	Rental Car 2		80 hrs	0	0	\$1,071.00	\$1,499.40	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$1,499.40 C
	Takashi Maruyama (Phys)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00				\$3,855.60 C
	Sho Uemura (Phys)		80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00			\$0.00	\$3,855.60 <mark>C</mark>
148 1.10.2	1.10.2 Commissioning		560 hrs	0	<u> </u>	\$15,912.00	\$22,276.80	\$0.00	\$0.00		\$0.00				
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Tim Nelson (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Per Hansson (Phys)	OP OP	80 hrs	0	-	\$2,754.00	\$3,855.60	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Rental Car 1	OP OP	80 hrs	0	0	\$1,071.00	\$1,499.40	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Rental Car 2 Takashi Maruyama (Phys)	OP OP	80 hrs	0	0	\$1,071.00 \$2,754.00	\$1,499.40 \$3,855.60	\$0.00	\$0.00 \$0.00		\$0.00			\$0.00 \$0.00	\$0.00 C \$0.00 C
	Sho Uemura (Phys)	OP OP	80 hrs	0	0	\$2,754.00 \$2,754.00	\$3,855.60	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00			\$0.00 \$0.00	\$0.00 C
149 1.10.3		UP	400 hrs		0	\$2,754.00	\$3,855.60	\$0.00	\$0.00 \$0.00						
170 1.10.0	1.10.3 Commissioning (2014)				U			·							
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Tim Nelson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Per Hansson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Rental Car 1	OP OP	80 hrs	0	0	\$1,071.00	\$1,392.30	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
150 1 10 1	Takashi Maruyama (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
150 1.10.4	1.10.4 Run 2.2GeV (2014)		320 hrs	0	U	\$9,333.00	\$11,306.70	\$0.00	\$0.00	\$11,306.70	\$0.00	\$0.00	\$11,306.70	\$0.00	
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Per Hansson (Phys)	OP	80 hrs		0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 <mark>C</mark>
	Rental Car 1	OP	80 hrs	0	0	\$1,071.00	\$1,392.30	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
1-	Takashi Maruyama (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
151 1.10.5	1.10.5 Run 1.1 GeV (2014)		320 hrs	0		\$9,333.00	\$12,132.90	\$0.00	\$0.00		\$0.00				\$0.00 C
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Tim Nelson (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Per Hansson (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
152 1.10.6	Rental Car 1	UP	80 hrs 560 hrs	0	0	\$1,071.00	\$1,392.30	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00		\$0.00			<i>\$0.00</i> \$0.00	\$0.00 C
132 1.10.0	1.10.6 Commissioning (2015)				U	\$15,912.00	\$28,121.40	·							\$0.00 <mark>C</mark>
	Ken Moffeit (Phys)	OP	80 hrs		0	\$2,754.00	\$11,016.00	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Tim Nelson (Phys)	OP	80 hrs		0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 <mark>C</mark> \$0.00 <mark>C</mark>
	Per Hansson (Phys)	OP	80 hrs		0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Rental Car 1	OP OP	80 hrs		0	\$1,071.00	\$1,392.30	\$0.00	\$0.00		\$0.00			\$0.00	
	Rental Car 2	OP OP	80 hrs		0	\$1,071.00	\$1,392.30	\$0.00	\$0.00		\$0.00				
	Takashi Maruyama (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
153 1.10.7	Sho Uemura (Phys)	OP	80 hrs	0	0	\$2,754.00 \$15,453.00	\$3,580.20	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
100 1.10.7	1.10.7 Run 2.2 GeV (2015)		640 hrs	0	0	\$15,453.00	\$20,088.90	\$0.00	\$0.00						U
	Ken Moffeit (Phys)	OP	160 hrs		0	\$4,437.00	\$5,768.10	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 <mark>C</mark>
	Per Hansson (Phys)	OP	160 hrs	0	0	\$4,437.00	\$5,768.10	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
	Rental Car 1	OP	160 hrs	0	0	\$2,142.00	\$2,784.60	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
154 4 10 0	Takashi Maruyama (Phys)	OP	160 hrs	0	0	\$4,437.00	\$5,768.10	\$0.00	\$0.00		\$0.00			\$0.00	\$0.00 C
154 1.10.8	1.10.8 Run 6.6 GeV (2015)		640 hrs	0	0	\$15,453.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00 C
	Ken Moffeit (Phys)	OP	160 hrs	0	0	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 C
	Tim Nelson (Phys)	OP	160 hrs	0	0	\$4,437.00	\$5,768.10	\$0.00	\$0.00		\$0.00				\$0.00 C
	Rental Car 1	OP	160 hrs	0	0	\$2,142.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00 C
	Sho Uemura (Phys)	OP	160 hrs	0	0	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10		\$0.00 <mark>C</mark>
155 1.11	1.11 Project management		4,544.8 hrs	0	0	\$128,373.12	\$166,885.06	\$0.00	\$0.00						
156 1.12			0 hrs	n	n	\$0.00	\$0.00	\$462,905.90	\$462,905.90	\$462,905.90	\$0.00	\$0.00	\$462,905.90	\$0.00	
	1.12 UCSC Funds				U										
157 1.12.1	1.12.1 UCSC FY13		0 hrs		0	\$0.00	\$0.00	\$53,547.00	\$53,547.00						\$0.00 C
158 1.12.2	1.12.2 UCSC FY14		0 hrs		0	\$0.00	\$0.00	\$119,641.00	\$119,641.00						
159 1.12.3	1.12.3 UCSC FY15		0 hrs		0	\$0.00	\$0.00	\$159,531.60	\$159,531.60						
160 1.12.4	1.12.4 UCSC FY16		0 hrs	0	0	\$0.00	\$0.00	\$130,186.30	\$130,186.30	\$130,186.30	\$0.00	y \$0.00	\$130,186.30	\$0.00	\$0.00 C
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