

WBS 1.4.4		LEVEL 2						
WBS 1.4.4	ITEM LEVEL 2	MATERIALS & SERVICES (M&S)				CONTINGENCY		
		Unit	#	Unit Cost	M&S TOTAL	%	Cost	TOTAL Cost
1.4.4.1	<b><i>L1.5 Calorimeter Electron Trigger</i></b>				265,564	0	0	265,564
1.4.4.1.1	L1 Interface	lot	1	104,564	104,564	0	0	104,564
1.4.4.1.2	DSP System	lot	1	100,000	100,000	0	0	100,000
1.4.4.1.3	Software Development	lot	1	61,000	61,000	0	0	61,000
1.4.4.2	<b><i>L2 Trigger Components</i></b>				1,376,400	24	332680	1,709,080
1.4.4.2.1	Alpha in VME				382,500	31	117500	500,000
1.4.4.2.1.1	Engineering & Design	m. yr.	0.5	80,000	40,000	50	20000	60,000
1.4.4.2.1.2	Prototypes	ea	3	17,500	52,500	20	10500	63,000
1.4.4.2.1.3	Final Card	ea	29	10,000	290,000	30	87000	377,000
1.4.4.2.2	MBT (Magic Bus Transceiver)				209,000	20	41800	250,800
1.4.4.2.2.1	Engineering & Design	m. yr.	0.7	120,000	84,000	20	16800	100,800
1.4.4.2.2.2	Prototypes	ea	3	5,000	15,000	20	3000	18,000
1.4.4.2.2.3	Final Card	ea	22	5,000	110,000	20	22000	132,000
1.4.4.2.3	SLIC (Serial Link Interface)				360,000	23	82000	442,000
1.4.4.2.3.1	Engineering & Design	m. yr.	1.0	100,000	100,000	30	30000	130,000
1.4.4.2.3.2	Prototypes	ea	2	10,000	20,000	20	4000	24,000
1.4.4.2.3.3	Final Card	ea	24	10,000	240,000	20	48000	288,000
1.4.4.2.4	SCL Fanout				64,000	24	15200	79,200
1.4.4.2.4.1	Engineering & Design	m. yr.	0.3	80,000	24,000	30	7200	31,200
1.4.4.2.4.2	Prototypes	ea	2	5,000	10,000	20	2000	12,000
1.4.4.2.4.3	Final Card	ea	6	5,000	30,000	20	6000	36,000
1.4.4.2.5	Fiber Input Converter				84,000	23	19200	103,200
1.4.4.2.5.1	Engineering & Design	m. yr.	0.3	80,000	24,000	30	7200	31,200
1.4.4.2.5.2	Prototypes	ea	2	10,000	20,000	20	4000	24,000
1.4.4.2.5.3	Final Card	ea	4	10,000	40,000	20	8000	48,000
1.4.4.2.6	Mbus Backplane				37,000	24	9000	46,000
1.4.4.2.6.1	Engineering & Design	m. yr.	0.2	80,000	16,000	30	4800	20,800
1.4.4.2.6.2	Prototypes	ea	1	1,500	1,500	20	300	1,800
1.4.4.2.6.3	Final Card	ea	13	1,500	19,500	20	3900	23,400
1.4.4.2.7	Bit3 MPM	ea	13	5,000	65,000	20	13000	78,000
1.4.4.2.8	PC	ea	5	3,000	15,000	20	3000	18,000
1.4.4.2.9	Cables	ea	440	100	44,000	20	8800	52,800
1.4.4.2.10	Crates				115,900	20	23180	139,080
1.4.4.2.10.1	VME	ea	13	3,300	42,900	20	8580	51,480
1.4.4.2.10.2	Power	ea	13	4,000	52,000	20	10400	62,400
1.4.4.2.10.3	Monitoring and Cooling	ea	7	2,000	14,000	20	2800	16,800
1.4.4.2.10.4	Rack	ea	7	1,000	7,000	20	1400	8,400
1.4.4.3	<b><i>System ED&amp;I</i></b>	m. yr.	0.5	60,000	30,000	20	6000	36,000
1.4.4.4	<b><i>Calorimeter Preprocessor</i></b>				191,500	20	38300	229,800
1.4.4.4.1	L2 Cal ED&I	m. yr.	0.4	60,000	24,000	20	4800	28,800

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<b>1.4.4</b>	<b>LEVEL 2</b>	<b>Unit</b>	<b>#</b>	<b>Unit Cost</b>	<b>M&amp;S TOTAL</b>	<b>%</b>	<b>Cost</b>	<b>TOTAL Cost</b>
1.4.4.4.2	Calorimeter Inputs	lot	1	167,500	167,500	20	33500	201,000
1.4.4.5	<i>L2 Muon</i>				33,000	21	6900	39,900
1.4.4.5.1	L2 Muon ED&I	m. yr.	0.10	100,000	10,000	20	2000	12,000
1.4.4.5.2	Development Hardware	lot	1	20,000	20,000	20	4000	24,000
1.4.4.5.3	Simulation Software	lot	1	3,000	3,000	30	900	3,900
1.4.4.6	<i>L2 CFT</i>				15,000	22	3300	18,300
1.4.4.6.1	ED&I	m. yr.	0.10	120,000	12,000	20	2400	14,400
1.4.4.6.2	Simulation Software	lot	1	3,000	3,000	30	900	3,900
1.4.4.7	<i>L2 Preshower</i>				9,000	23	2100	11,100
1.4.4.7.1	ED&I	m. yr.	0.10	60,000	6,000	20	1200	7,200
1.4.4.7.2	Simulation Software	lot	1	3,000	3,000	30	900	3,900
1.4.4.8	<i>L2 Global ED&amp;I</i>	m. yr.	0.4	60,000	24,000	20	4800	28,800
1.4.4.9	<i>Test Stand ED&amp;I</i>	m. yr.	0.3	60,000	18,000	20	3600	21,600
1.4.4	TOTAL L2 TRIGGER				1,962,464	20	397,680	2,360,144