

ID	WBS	Task Name	Duration	Start	Finish	Cost Center	Fixed Cost	Cost	Text10	2017					2018				2019				2020				2021								
										Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4					
1		1 MAPS Inner Barrel	1217 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$4,835,948.24																											
2	1.11	MAPS Inner Barrel Starts	0 days	Sat 10/1/16	Sat 10/1/16		\$0.00	\$0.00	10/1																										
3	1.10	MAPS Inner Barrel Ends	0 days	Tue 6/1/21	Tue 6/1/21		\$0.00	\$0.00																											
4	1.1	Milestones of sPHENIX	1216 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$0.00	10/1																										
5	1.1.1	sPHENIX Technical Design CD-0	0 days	Tue 11/1/16	Tue 11/1/16		\$0.00	\$0.00	CD-0 (11/2	CD-0 (11/2016)																									
6	1.1.2	sPHENIX Technical Design (CD-1/CD-3a)	0 days	Wed 11/1/17	Wed 11/1/17		\$0.00	\$0.00	CD-1 (11/2		CD-1 (11/2017)																								
7	1.1.3	sPHENIX Technical Dewsgin (CD-2)	0 days	Mon 7/2/18	Mon 7/2/18		\$0.00	\$0.00	CD-2 (7/20			CD-2 (7/2018)																							
8	1.1.4	sPHENIX Start Construction (CD-3b)	0 days	Wed 8/1/18	Wed 8/1/18		\$0.00	\$0.00	CD-3b (8/2			CD-3b (8/2018)																							
9	1.1.5	sPHENIX Installation	0 days	Tue 6/1/21	Tue 6/1/21		\$0.00	\$0.00	ready for b																			sPHENIX Insta							
10	1.1.6	ALICE ITS Inner Barrel Construction	261 days	Mon 1/2/17	Mon 1/1/18		\$0.00	\$0.00	ITS constr		ITS construction																								
11	1.1.9	ALICE ITS Electronics Pre-Production	100 days	Wed 2/22/17	Tue 7/11/17		\$0.00	\$0.00	ITS Electr		ITS Electronics Pre-Production																								
12	1.1.8	ALICE ITS Electronics Production	240 days	Thu 7/13/17	Wed 6/13/18		\$0.00	\$0.00	ITS Electr		ITS Electronics Production																								
13	1.1.7	LANL LDRD	781 days	Mon 10/3/16	Mon 9/30/19	LDRD	\$0.00	\$0.00	LDRD		LDRD																								
14	1.1.11	sPHENIX Test Beam	21 days	Fri 2/1/19	Fri 3/1/19	LDRD	\$0.00	\$0.00																											
15	1.2	Project Management	1217 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$671,784.00	sPHENIX		sPHENIX MAP																								
16	1.2.1	Level 3 Project Manager	1217 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$447,856.00			Project Manag																								
17	1.2.2	Mechanical Liason Engineer	1217 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$111,964.00			Mech Liason E																								
18	1.2.3	Electronics Liason Engineer	1217 days	Mon 10/3/16	Tue 6/1/21		\$0.00	\$111,964.00			Elec Liason E																								
19	1.3	Design & Prototyping	363 days?	Mon 10/3/16	Wed 2/21/18	LDRD	\$0.00	\$980,090.91	LDRD/R&D		LDRD/R&D																								
20	1.3.1	MOU btw LANL/sPHENIX and ALICE	60 days?	Mon 10/3/16	Fri 12/23/16	LDRD	\$0.00	\$0.00		12/23																									
21	1.3.2	Readout Test Stand	65 days	Mon 10/3/16	Fri 12/30/16	LDRD	\$0.00	\$45,600.00																											
22	1.3.2.1	Obtain Design from CERN	5 days	Mon 10/3/16	Fri 10/7/16	LDRD	\$0.00	\$2,000.00			Electronics Engineer[20%]																								
23	1.3.2.2	Procure 2 Test Stands	60 days	Mon 10/3/16	Fri 12/23/16	LDRD	\$30,000.00	\$39,600.00			Elec tech[10%],Physicist[20%]																								
24	1.3.2.3	Setup Test Stands	5 days	Mon 12/26/16	Fri 12/30/16	LDRD	\$0.00	\$4,000.00			Physicist,Elec tech[50%]																								
25	1.3.3	Detector Staves	190 days?	Mon 12/26/16	Fri 9/15/17	LDRD	\$0.00	\$147,000.00																											
26	1.3.3.1	Procure and Produce 4 Staves	180 days	Mon 12/26/16	Fri 9/1/17	LDRD	\$55,000.00	\$127,000.00			Physicist,Elec tech																								
27	1.3.3.2	Test Staves	10 days	Mon 9/4/17	Fri 9/15/17	LDRD	\$0.00	\$0.00			Physicist[200%]																								
28	1.3.3.3	Travel and Per Diem Support	180 days?	Mon 12/26/16	Fri 9/1/17	LDRD	\$20,000.00	\$20,000.00																											
29	1.3.4	Electronics	363 days	Mon 10/3/16	Wed 2/21/18	LDRD	\$0.00	\$360,890.91																											
30	1.3.4.1	ALICE Readout Electronics	272 days	Mon 10/3/16	Tue 10/17/17		\$0.00	\$39,600.00																											
31	1.3.4.1.1	SamTec Cables	12 days	Mon 10/3/16	Tue 10/18/16		\$0.00	\$5,200.00																											
32	1.3.4.1.1.1	Procure 7 SamTec Cables	10 days	Mon 10/3/16	Fri 10/14/16	LDRD	\$2,000.00	\$5,200.00			Physicist[20%],Elec tech[20%]																								
33	1.3.4.1.1.2	Test Cables	2 days	Mon 10/17/16	Tue 10/18/16	LDRD	\$0.00	\$0.00			Physicist																								
34	1.3.4.1.2	Readout Units (RDOs)	70 days	Wed 7/12/17	Tue 10/17/17		\$0.00	\$13,000.00																											
35	1.3.4.1.2.1	Procure 4 RDOs	60 days	Wed 7/12/17	Tue 10/3/17	LDRD	\$5,000.00	\$8,200.00			Physicist[10%],Elec tech[5%]																								
36	1.3.4.1.2.2	Test RDOs	10 days	Wed 10/4/17	Tue 10/17/17	LDRD	\$0.00	\$4,800.00			Physicist,Elec tech[30%]																								
37	1.3.4.1.3	Optical Cables	12 days	Tue 10/4/16	Wed 10/19/16		\$0.00	\$2,600.00																											
38	1.3.4.1.3.1	Procure 4 Optical Cables	10 days	Tue 10/4/16	Mon 10/17/16	LDRD	\$1,000.00	\$2,600.00			Physicist[20%],Elec tech[10%]																								
39	1.3.4.1.3.2	Test Optical Cables	2 days	Tue 10/18/16	Wed 10/19/16	LDRD	\$0.00	\$0.00			Physicist																								
40	1.3.4.1.4	Common Readout Units (CRUs)	65 days	Wed 10/5/16	Tue 1/3/17		\$0.00	\$18,800.00																											
41	1.3.4.1.4.1	Procure 2 CRUs	60 days	Wed 10/5/16	Tue 12/27/16	LDRD	\$10,000.00	\$14,800.00			Physicist[20%],Elec tech[5%]																								
42	1.3.4.1.4.2	Test CRUs	5 days	Wed 12/28/16	Tue 1/3/17	LDRD	\$0.00	\$4,000.00			Physicist,Elec tech[50%]																								
43	1.3.4.2	sPHENIX Readout Electronics Integration (FEM)	351 days	Mon 10/3/16	Mon 2/5/18		\$0.00	\$309,290.91																											
44	1.3.4.2.1	obtain ALICE Readout Unit design	1 day	Mon 10/3/16	Mon 10/3/16	LDRD	\$0.00	\$2,000.00			Physicist,Electronics Engineer																								
45	1.3.4.2.2	initial design	40 days	Tue 10/4/16	Mon 11/28/16	LDRD	\$0.00	\$40,000.00			Electronics Engineer,Physicist[10%]																								
46	1.3.4.2.3	prototype	60 days	Tue 11/29/16	Mon 2/20/17	LDRD	\$5,000.00	\$24,200.00			Physicist[50%],Elec tech[20%]																								
47	1.3.4.2.4	test-I	20 days	Tue 2/21/17	Mon 3/20/17	LDRD	\$0.00	\$2,545.45			Electronics Engineer[30%],Physicist[50%]																								
48	1.3.4.2.5	revised design	30 days	Tue 3/21/17	Mon 5/1/17	LDRD	\$0.00	\$30,000.00			Electronics Engineer,Physicist[20%]																								
49	1.3.4.2.6	prototype	60 days	Tue 5/2/17	Mon 7/24/17	LDRD	\$5,000.00	\$24,200.00			Physicist[50%],Elec tech[20%]																								
50	1.3.4.2.7	test-II	20 days	Tue 7/25/17	Mon 8/21/17	LDRD	\$0.00	\$2,545.45			Electronics Engineer[30%],Physicist																								
51	1.3.4.2.8	final design	30 days	Tue 8/22/17	Mon 10/2/17	LDRD	\$0.00	\$30,000.00			10/2																								
52	1.3.4.2.9	Procure 4 FEMs	60 days	Tue 10/3/17	Mon 12/25/17	LDRD	\$20,000.00	\$24,800.00			Physicist[20%],Elec tech[5%]																								
53	1.3.4.2.10	System Test	30 days	Tue 12/26/17	Mon 2/5/18	LDRD	\$0.00	\$6,000.00			Electronics Engineer[30%],Physicist																								

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54	1.3.4.2.11	sPHENIX DAQ System Integration	180 days	Mon 10/3/16	Fri 6/9/17		\$0.00	\$123,000.00																							
55	1.3.4.2.11.4	Slow Control Design	60 days	Mon 10/3/16	Fri 12/23/16	LDRD	\$5,000.00	\$41,000.00																							
56	1.3.4.2.11.5	Trigger Interface Design	60 days	Mon 12/26/16	Fri 3/17/17	LDRD	\$5,000.00	\$41,000.00																							
57	1.3.4.2.11.6	DAQ Interface Design	60 days	Mon 3/20/17	Fri 6/9/17	LDRD	\$5,000.00	\$41,000.00																							
58	1.3.4.4	Electronics Final Design Review	12 days	Tue 2/6/18	Wed 2/21/18		\$0.00	\$12,000.00																							
59	1.3.4.4.1	Electronics Design Review	1 day	Tue 2/6/18	Tue 2/6/18	LDRD	\$0.00	\$2,000.00																							
60	1.3.4.4.2	Incorporate Review Comments	10 days	Wed 2/7/18	Tue 2/20/18	LDRD	\$0.00	\$8,000.00																							
61	1.3.4.4.3	Complete Final Electronics Design	1 day	Wed 2/21/18	Wed 2/21/18	LDRD	\$0.00	\$2,000.00																							
62	1.3.5	Ancillaries	64 days	Tue 10/4/16	Fri 12/30/16	LDRD	\$0.00	\$56,200.00																							
63	1.3.5.1	Procure LV,HV,etc	60 days	Tue 10/4/16	Mon 12/26/16	LDRD	\$25,000.00	\$34,600.00																							
64	1.3.5.2	Procure Racks	60 days	Thu 10/6/16	Wed 12/28/16	LDRD	\$5,000.00	\$9,800.00																							
65	1.3.5.3	Procure Chiller	60 days	Mon 10/10/16	Fri 12/30/16	LDRD	\$7,000.00	\$11,800.00																							
66	1.3.6	Mechanics	227 days	Mon 10/3/16	Tue 8/15/17	LDRD	\$0.00	\$370,400.00																							
67	1.3.6.1	obtain ALICE CAD model	0 days	Mon 10/3/16	Mon 10/3/16	LDRD	\$0.00	\$0.00	ALICE CAD																						
68	1.3.6.2	Specifications	55 days	Mon 10/3/16	Fri 12/16/16		\$0.00	\$55,000.00																							
69	1.3.6.2.1	review heat load	40 days	Mon 10/3/16	Fri 11/25/16	LDRD	\$0.00	\$40,000.00																							
70	1.3.6.2.2	review mechanical tolerances/distortions	10 days	Mon 11/28/16	Fri 12/9/16	LDRD	\$0.00	\$10,000.00																							
71	1.3.6.2.3	review disassembly/repair options	5 days	Mon 12/12/16	Fri 12/16/16	LDRD	\$0.00	\$5,000.00																							
72	1.3.6.3	Stave Support Frame & Global Interface to sPHENIX	115 days	Mon 12/19/16	Fri 5/26/17		\$0.00	\$159,800.00																							
73	1.3.6.3.1	initial design	30 days	Mon 12/19/16	Fri 1/27/17	LDRD	\$0.00	\$60,000.00																							
74	1.3.6.3.2	prototype	60 days	Mon 1/30/17	Fri 4/21/17	LDRD	\$25,000.00	\$53,800.00																							
75	1.3.6.3.3	test	10 days	Mon 4/24/17	Fri 5/5/17	LDRD	\$0.00	\$16,000.00																							
76	1.3.6.3.4	final design	15 days	Mon 5/8/17	Fri 5/26/17	LDRD	\$0.00	\$30,000.00																							
77	1.3.6.4	Cooling System	20 days	Mon 11/28/16	Fri 12/23/16		\$0.00	\$38,000.00																							
78	1.3.6.4.1	Design	10 days	Mon 11/28/16	Fri 12/9/16	LDRD	\$0.00	\$20,000.00																							
79	1.3.6.4.2	Mock up Testing	10 days	Mon 12/12/16	Fri 12/23/16	LDRD	\$10,000.00	\$18,000.00																							
80	1.3.6.5	Safety Systems	70 days	Mon 12/26/16	Fri 3/31/17		\$0.00	\$56,000.00																							
81	1.3.6.5.1	review sensors & interlocks	10 days	Mon 12/26/16	Fri 1/6/17	LDRD	\$0.00	\$10,000.00																							
82	1.3.6.5.2	electrical interlock design	30 days	Mon 1/9/17	Fri 2/17/17	LDRD	\$5,000.00	\$23,000.00																							
83	1.3.6.5.3	cooling interlocks design	30 days	Mon 2/20/17	Fri 3/31/17	LDRD	\$5,000.00	\$23,000.00																							
84	1.3.6.6	Stave Assembly Tooling	45 days	Mon 5/29/17	Fri 7/28/17		\$0.00	\$41,600.00																							
85	1.3.6.6.1	design	10 days	Mon 5/29/17	Fri 6/9/17	LDRD	\$0.00	\$20,000.00																							
86	1.3.6.6.2	prototype	30 days	Mon 6/12/17	Fri 7/21/17	LDRD	\$2,000.00	\$11,600.00																							
87	1.3.6.6.3	final design	5 days	Mon 7/24/17	Fri 7/28/17	LDRD	\$0.00	\$10,000.00																							
88	1.3.6.7	Mechanics Coneptual Design Review	12 days	Mon 7/31/17	Tue 8/15/17		\$0.00	\$20,000.00																							
89	1.3.6.7.1	Mechanics Design Review	1 day	Mon 7/31/17	Mon 7/31/17	LDRD	\$0.00	\$2,000.00																							
90	1.3.6.7.2	Incorporate Review Comments	10 days	Tue 8/1/17	Mon 8/14/17	LDRD	\$0.00	\$16,000.00																							
91	1.3.6.7.3	Complete Initall Mechanical Design (for CD-1)	1 day	Tue 8/15/17	Tue 8/15/17	LDRD	\$0.00	\$2,000.00																							
92	1.4	Prototype Assembly	50 days	Tue 2/6/18	Mon 4/16/18	LDRD	\$0.00	\$72,000.00																							
93	1.4.1	Stave Framing Design	10 days	Tue 2/6/18	Mon 2/19/18	LDRD	\$0.00	\$8,000.00																							
94	1.4.2	Assemble prototype	30 days	Tue 2/20/18	Mon 4/2/18	LDRD	\$0.00	\$48,000.00																							
95	1.4.3	Prototype Full System Test	10 days	Tue 4/3/18	Mon 4/16/18	LDRD	\$0.00	\$16,000.00																							
96	1.5	Test Beam Operation	35 days	Fri 1/11/19	Thu 2/28/19	LDRD	\$0.00	\$30,800.00																							
97	1.5.1	Shipping/Transport	10 days	Fri 1/11/19	Thu 1/24/19	LDRD	\$10,000.00	\$13,733.33																							
98	1.5.2	Setup	5 days	Fri 1/25/19	Thu 1/31/19	LDRD	\$0.00	\$10,666.67																							
99	1.5.3	Operations	20 days	Fri 2/1/19	Thu 2/28/19	LDRD	\$0.00	\$6,400.00																							
100	1.6	sPHENIX Mechanics Integration	42 days?	Wed 4/18/18	Thu 6/14/18		\$0.00	\$50,000.00																							
101	1.6.1	Final Mechanics Desgin	30 days?	Wed 4/18/18	Tue 5/29/18	LDRD	\$0.00	\$30,000.00																							
102	1.6.2	Mechanics Final Design Review	12 days	Wed 5/30/18	Thu 6/14/18		\$0.00	\$20,000.00																							
103	1.6.2.4	Mechanics Final Design Review	1 day	Wed 5/30/18	Wed 5/30/18	LDRD	\$0.00	\$2,000.00																							
104	1.6.2.5	Incorporate Review Comments	10 days	Thu 5/31/18	Wed 6/13/18	LDRD	\$0.00	\$16,000.00																							
105	1.6.2.6	Complete Final Mechanical Design	1 day	Thu 6/14/18	Thu 6/14/18	LDRD	\$0.00	\$2,000.00																							

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										Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
106	1.7	MAPS Inner Barrel Review	12 days	Fri 6/15/18	Mon 7/2/18		\$0.00	\$28,000.00																						
107	1.7.1	Final Design Review	1 day	Fri 6/15/18	Fri 6/15/18		\$0.00	\$4,000.00																						
108	1.7.2	Incorporate Review Comments	10 days	Mon 6/18/18	Fri 6/29/18		\$0.00	\$20,000.00																						
109	1.7.3	Complete Final Design (CD-2)	1 day	Mon 7/2/18	Mon 7/2/18		\$0.00	\$4,000.00																						
110	1.8	Productions	661 days?	Wed 8/1/18	Wed 2/10/21		\$0.00	\$3,003,273.33	Productio																					
111	1.8.1	Full Mechnicas System pre-Production Mock Up and Test Beam Analysis	100 days	Fri 3/1/19	Thu 7/18/19		\$0.00	\$88,000.00																						
112	1.8.2	Procurements	359 days?	Wed 8/1/18	Mon 12/16/19		\$0.00	\$2,299,140.00																						
113	1.8.2.1	CERN Procuments	180 days?	Wed 8/1/18	Tue 4/9/19		\$0.00	\$1,097,840.00																						
114	1.8.2.1.1	Produce 68 Inner Staves	180 days	Wed 8/1/18	Tue 4/9/19		\$920,000.00	\$1,064,000.00																						
115	1.8.2.1.2	Other ITS/CERN items	120 days	Wed 8/1/18	Tue 1/15/19		\$10,000.00	\$13,840.00																						
116	1.8.2.1.3	Travel and Per Diem at CERN	180 days?	Wed 8/1/18	Tue 4/9/19		\$20,000.00	\$20,000.00																						
117	1.8.2.2	Procure 68 Readout / FEM Units	100 days	Thu 8/2/18	Wed 12/19/18		\$322,000.00	\$338,000.00																						
118	1.8.2.3	Procure Optical Links 68	60 days	Fri 8/3/18	Thu 10/25/18		\$42,200.00	\$47,000.00																						
119	1.8.2.4	Procure 34 Common Readout Units	100 days	Mon 8/6/18	Fri 12/21/18		\$181,700.00	\$189,700.00																						
120	1.8.2.5	Procure 100 SamTec Cables	60 days	Tue 8/7/18	Mon 10/29/18		\$27,000.00	\$31,800.00																						
121	1.8.2.6	Procure Ancillary Materials (LVPS and cables etc)	100 days	Wed 8/8/18	Tue 12/25/18		\$60,000.00	\$68,000.00																						
122	1.8.2.7	Procure Cooling Plant	100 days	Fri 7/19/19	Thu 12/5/19		\$117,000.00	\$125,000.00																						
123	1.8.2.8	Procure Assembly Fixtures & Jigs	60 days	Mon 7/22/19	Fri 10/11/19		\$100,000.00	\$104,800.00																						
124	1.8.2.9	Procure End Wheels	100 days	Tue 7/23/19	Mon 12/9/19		\$34,000.00	\$42,000.00																						
125	1.8.2.10	Procure Cylindrical Structural Shells	100 days	Wed 7/24/19	Tue 12/10/19		\$11,000.00	\$19,000.00																						
126	1.8.2.11	Procure Detector Half Barrels	100 days	Thu 7/25/19	Wed 12/11/19		\$13,000.00	\$21,000.00																						
127	1.8.2.12	Procure Service Half Barrels	100 days	Fri 7/26/19	Thu 12/12/19		\$120,000.00	\$128,000.00																						
128	1.8.2.13	Procure Detector and Service Half Barrels	100 days	Mon 7/29/19	Fri 12/13/19		\$21,000.00	\$29,000.00																						
129	1.8.2.14	Procure Two Half Support Structures	100 days	Tue 7/30/19	Mon 12/16/19		\$50,000.00	\$58,000.00																						
130	1.8.3	Assembly and Testing at BNL	425 days	Wed 12/26/18	Tue 8/11/20		\$0.00	\$367,733.33																						
131	1.8.3.1	Test Production FEMS, e-Links, CRU, LV, optical links	90 days	Wed 12/26/18	Tue 4/30/19		\$0.00	\$43,200.00																						
132	1.8.3.2	Test Cooling System	10 days	Fri 12/6/19	Thu 12/19/19		\$0.00	\$8,000.00																						
133	1.8.3.3	Stave Reciept Inspection	10 days	Wed 4/10/19	Tue 4/23/19		\$0.00	\$1,733.33																						
134	1.8.3.4	Individual Stave Readout Test	70 days	Wed 4/24/19	Tue 7/30/19		\$0.00	\$22,400.00																						
135	1.8.3.5	Metrology on Stave Assemblies	70 days	Wed 7/31/19	Tue 11/5/19		\$0.00	\$42,000.00																						
136	1.8.3.6	Assemble full Ladders into Half support	100 days	Tue 12/17/19	Mon 5/4/20		\$0.00	\$38,400.00																						
137	1.8.3.7	Metrology on Final Assembly	10 days	Tue 5/5/20	Mon 5/18/20		\$0.00	\$20,000.00																						
138	1.8.3.8	Test Half detector Assembly	60 days	Wed 5/20/20	Tue 8/11/20		\$0.00	\$192,000.00																						
139	1.8.4	Installation	131 days	Wed 8/12/20	Wed 2/10/21		\$0.00	\$248,400.00																						
140	1.8.4.1	Installation Prep	10 days	Wed 8/12/20	Tue 8/25/20		\$0.00	\$16,000.00																						
141	1.8.4.2	Installation Review	1 day	Wed 8/26/20	Wed 8/26/20		\$0.00	\$2,000.00																						
142	1.8.4.3	Installation	60 days	Thu 8/27/20	Wed 11/18/20		\$0.00	\$192,000.00																						
143	1.8.4.4	Commissioning	60 days	Thu 11/19/20	Wed 2/10/21		\$0.00	\$38,400.00																						
144	1.9	Ready for beam	0 days	Wed 2/10/21	Wed 2/10/21		\$0.00	\$0.00																						