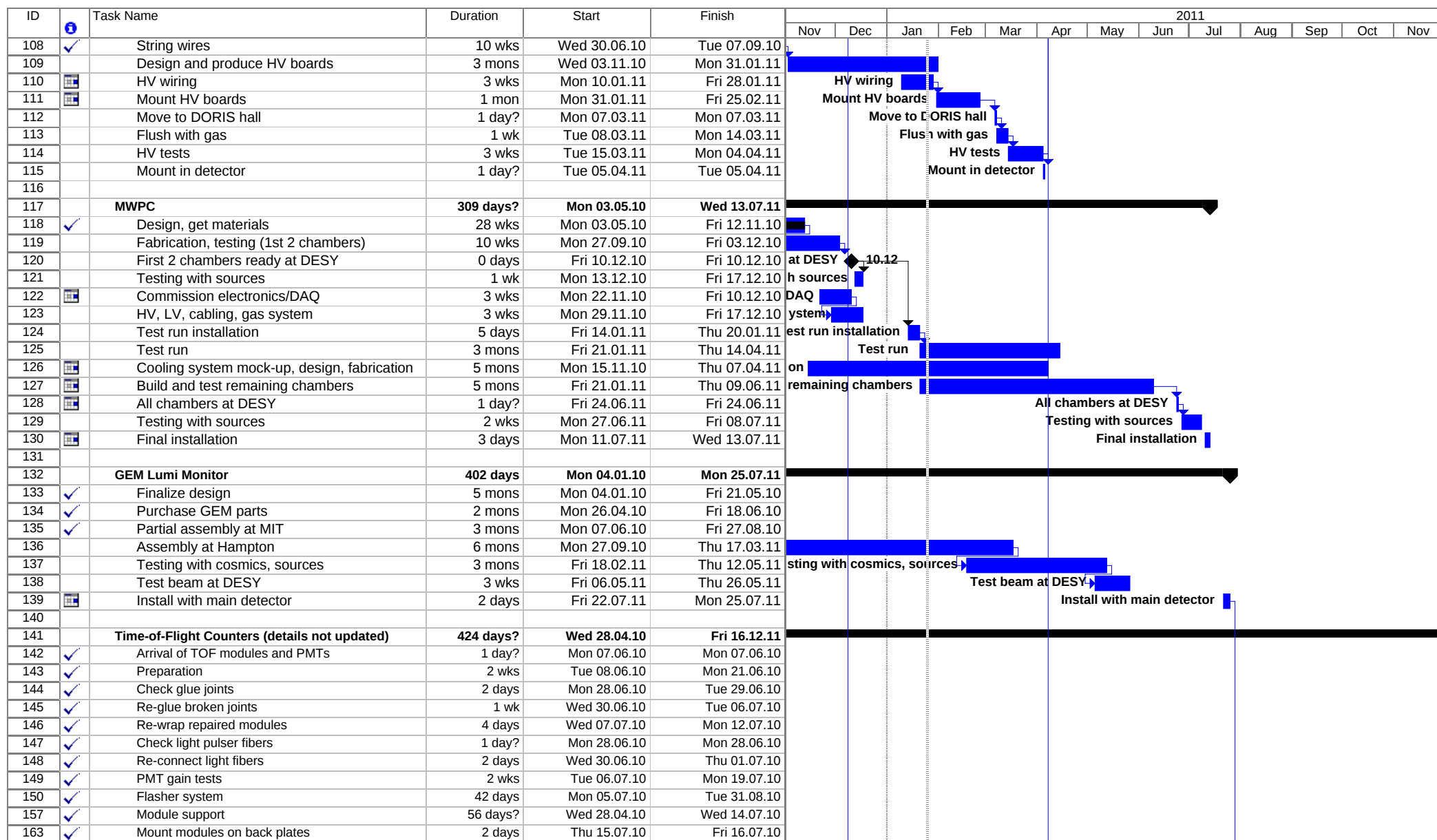
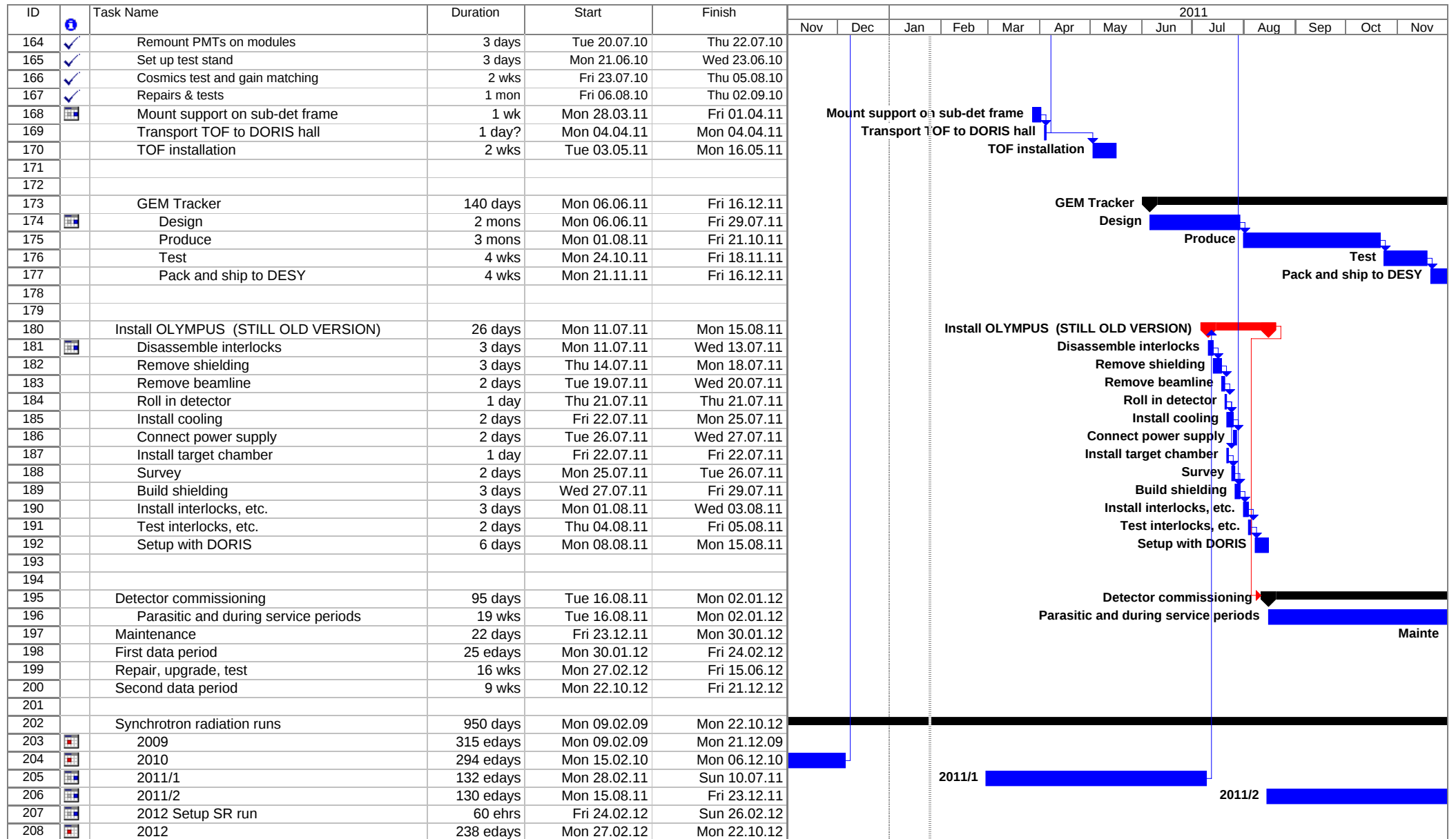


ID	Task Name	Duration	Start	Finish	2011											
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
0	OLYMPUS_10	1020 days?	Mon 05.01.09	Fri 21.12.12												
1																
2	Shielding	215 days	Wed 23.06.10	Mon 25.04.11												
3	Design lead shielding	5 mons	Wed 23.06.10	Tue 09.11.10												
4	Fabricate lead shielding	2 mons	Tue 01.03.11	Mon 25.04.11												
5																
6	Target system and Beamline	356 days	Mon 24.08.09	Mon 17.01.11												
25	Spare target cell date ????	1 day?	Mon 05.01.09	Mon 05.01.09												
26																
27	Modify IP region	57 days?	Mon 06.12.10	Mon 28.02.11												
28	Remove shielding (ceiling)	1 day	Mon 06.12.10	Mon 06.12.10												
29	Remove interlocks,... signal cables	4 days	Tue 07.12.10	Fri 10.12.10												
30	Open (4) quads	1 day	Tue 07.12.10	Tue 07.12.10												
31	Remove vacuum system, cavities and monitors	3 days	Wed 08.12.10	Fri 10.12.10												
32	Remove (4) quads and supports	2 days	Mon 13.12.10	Tue 14.12.10												
33	Install (4) magnet supports	3 days	Wed 15.12.10	Fri 17.12.10												
34	Install quad lower halves	1 day	Mon 20.12.10	Mon 20.12.10												
35	Install connection beam pipes and valves	2 days	Tue 21.12.10	Wed 22.12.10												
36	Close DORIS vacuum system (except IR)	0 days	Wed 22.12.10	Wed 22.12.10												
37	Close (4) quads	1 day?	Thu 23.12.10	Thu 23.12.10												
38	Remove top shielding	1 day?	Wed 15.12.10	Wed 15.12.10												
39	Install dust protection wall	1 day?	Wed 15.12.10	Wed 15.12.10												
40	Remove concrete floor	2 days	Thu 16.12.10	Fri 17.12.10												
41	Remove remaining shielding	3 days	Mon 20.12.10	Wed 22.12.10												
42	Install rear shielding	3 days	Thu 23.12.10	Thu 30.12.10												
43	Install bridge	4 days	Mon 03.01.11	Thu 06.01.11												
44	Install forward shielding	3 days	Fri 07.01.11	Tue 11.01.11												
45	Install shielding entrance	1 day?	Wed 12.01.11	Wed 12.01.11												
46	Install magnet girders	2 days	Thu 13.01.11	Fri 14.01.11												
47	Install 2 quad halves	1 day?	Mon 17.01.11	Mon 17.01.11												
48	Install vacuum system (target)	4 days	Tue 18.01.11	Fri 21.01.11												
49	Close vacuum	0 days	Fri 21.01.11	Fri 21.01.11												
50	Install shielding ceiling	1 day?	Mon 24.01.11	Mon 24.01.11												
51	Survey	3 days	Tue 25.01.11	Thu 27.01.11												
52	Install cavities SL	1 wk	Mon 13.12.10	Fri 17.12.10												
53	Reroute signal cables	3 days	Mon 20.12.10	Wed 22.12.10												
54	Install test experiment detectors	7 days	Thu 13.01.11	Fri 21.01.11												
55	Install interlock, emergency off, ...	7 days	Thu 13.01.11	Fri 21.01.11												
56																
57																
58	Finish shielding walls	2 days	Mon 24.01.11	Tue 25.01.11												
59	Install shielding ceiling	1 day?	Wed 26.01.11	Wed 26.01.11												
60	Final survey of target chamber	2 days	Tue 01.02.11	Wed 02.02.11												
61	Setup interlock in IR	1 day	Thu 03.02.11	Thu 03.02.11												
62																

ID	Task Name	Duration	Start	Finish	2011											
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
63	First beam	1 day?	Thu 10.02.11	Thu 10.02.11	First beam											
64	Commissioning with beam	2 edays	Thu 10.02.11	Sat 12.02.11	ommissioning with beam											
65	Bake out at 4.5 GeV	5 edays	Sat 12.02.11	Thu 17.02.11	Bake out at 4.5 GeV											
66	2GeV studies, 6 OLYMPUS day shifts	6 edays	Thu 17.02.11	Wed 23.02.11	ies, 6 OLYMPUS day shifts											
67	Bake out (evening, night)	6 edays	Thu 17.02.11	Wed 23.02.11	Bake out (evening, night)											
68	Radiation safety measurements	2 days	Wed 23.02.11	Thu 24.02.11	adiation safety measurements											
69	Synchrotron radiation test run	3 edays	Thu 24.02.11	Sun 27.02.11	Synchrotron radiation test run											
70	Start synchrotron radiation run	1 day?	Mon 28.02.11	Mon 28.02.11	Start synchrotron radiation run											
71																
72																
73	Assembly of OLYMPUS detector	418 days	Mon 16.11.09	Wed 06.07.11												
74	Design intermediate support frame	18 wks	Mon 16.11.09	Mon 29.03.10												
75	Construct intermediate support frame	3 wks	Tue 08.06.10	Mon 28.06.10												
76	Assembly in park position	224 days	Mon 28.06.10	Wed 11.05.11												
77	Assemble outer frames	3 wks	Mon 28.06.10	Fri 16.07.10												
78	Survey frames	3 days	Mon 19.07.10	Wed 21.07.10												
79	Install lower coils	3 wks	Wed 04.08.10	Tue 24.08.10												
80	Survey bottom coils	2 wks	Wed 25.08.10	Tue 07.09.10												
81	Install upper coils	3 wks	Wed 08.09.10	Tue 28.09.10												
82	Connect power cables	2 wks	Mon 05.07.10	Fri 16.07.10												
83	Connect water cooling	2 wks	Wed 29.09.10	Tue 12.10.10												
84	Survey and adjust coils	3 wks	Wed 13.10.10	Tue 02.11.10												
85	Power supply commissioning	1 wk	Wed 03.11.10	Tue 09.11.10												
86	Field measurements along beam line	1 wk	Wed 10.11.10	Tue 16.11.10												
87	Readjust coil position	1 wk	Wed 17.11.10	Tue 23.11.10												
88	Field measurement WC region	2 wks	Wed 24.11.10	Tue 07.12.10												
89	Assemble subdetector frames	2 days	Wed 20.10.10	Thu 21.10.10												
90	Install gas pipes (supply lines)	2 wks	Mon 04.10.10	Fri 15.10.10												
91	Field measurements WC region II	2 wks	Tue 08.02.11	Mon 21.02.11												
92	Route detector signal cables	1 wk	Mon 07.03.11	Fri 11.03.11												
93	Install TOFs	1 wk	Tue 05.04.11	Mon 11.04.11												
94	Install wire chambers	2 days	Tue 05.04.11	Wed 06.04.11												
95	WC cable and gas connections	1 wk	Thu 07.04.11	Wed 13.04.11												
96	Flush WC with gas	1 wk	Thu 14.04.11	Wed 20.04.11												
97	Survey and adjust wire chamber position	1 wk	Thu 07.04.11	Wed 13.04.11												
98	Wire chamber test with cosmics	1 mon	Thu 14.04.11	Wed 11.05.11												
99																
100	Commission detector components	8 wks	Thu 12.05.11	Wed 06.07.11												
101	Test with toroid	3 wks	Thu 09.06.11	Wed 29.06.11												
102																
103	Wire Chambers	303 days?	Mon 01.02.10	Tue 05.04.11												
104	Check out wire chambers	1 mon	Mon 01.02.10	Fri 26.02.10												
105	Ship wire chambers	1 mon	Mon 10.05.10	Fri 04.06.10												
106	prepare clean room at DESY	1 mon	Mon 19.04.10	Fri 14.05.10												
107	Wire chamber preparation	1 wk	Mon 07.06.10	Fri 11.06.10												





ID	Task Name	Duration	Start	Finish	2012											
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
0	OLYMPUS_10	1020 days?	Mon 05.01.09	Fri 21.12.12												
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2	Shielding	215 days	Wed 23.06.10	Mon 25.04.11												
3	Design lead shieldung	5 mons	Wed 23.06.10	Tue 09.11.10												
4	Fabricate lead shielding	2 mons	Tue 01.03.11	Mon 25.04.11												
5																
6	Target system and Beamline	356 days	Mon 24.08.09	Mon 17.01.11												
25	Spare target cell date ????	1 day?	Mon 05.01.09	Mon 05.01.09												
26																
27	Modify IP region	57 days?	Mon 06.12.10	Mon 28.02.11												
28	Remove shielding (ceiling)	1 day	Mon 06.12.10	Mon 06.12.10												
29	Remove interlocks,... signal cables	4 days	Tue 07.12.10	Fri 10.12.10												
30	Open (4) quads	1 day	Tue 07.12.10	Tue 07.12.10												
31	Remove vacuum system, cavities and monitors	3 days	Wed 08.12.10	Fri 10.12.10												
32	Remove (4) quads and supports	2 days	Mon 13.12.10	Tue 14.12.10												
33	Install (4) magnet supports	3 days	Wed 15.12.10	Fri 17.12.10												
34	Install quad lower halves	1 day	Mon 20.12.10	Mon 20.12.10												
35	Install connection beam pipes and valves	2 days	Tue 21.12.10	Wed 22.12.10												
36	Close DORIS vacuum system (except IR)	0 days	Wed 22.12.10	Wed 22.12.10												
37	Close (4) quads	1 day?	Thu 23.12.10	Thu 23.12.10												
38	Remove top shielding	1 day?	Wed 15.12.10	Wed 15.12.10												
39	Install dust protection wall	1 day?	Wed 15.12.10	Wed 15.12.10												
40	Remove concrete floor	2 days	Thu 16.12.10	Fri 17.12.10												
41	Remove remaining shielding	3 days	Mon 20.12.10	Wed 22.12.10												
42	Install rear shielding	3 days	Thu 23.12.10	Thu 30.12.10												
43	Install bridge	4 days	Mon 03.01.11	Thu 06.01.11												
44	Install forward shielding	3 days	Fri 07.01.11	Tue 11.01.11												
45	Install shielding entrance	1 day?	Wed 12.01.11	Wed 12.01.11												
46	Install magnet girders	2 days	Thu 13.01.11	Fri 14.01.11												
47	Install 2 quad halves	1 day?	Mon 17.01.11	Mon 17.01.11												
48	Install vacuum system (target)	4 days	Tue 18.01.11	Fri 21.01.11												
49	Close vacuum	0 days	Fri 21.01.11	Fri 21.01.11												
50	Install shielding ceiling	1 day?	Mon 24.01.11	Mon 24.01.11												
51	Survey	3 days	Tue 25.01.11	Thu 27.01.11												
52	Install cavities SL	1 wk	Mon 13.12.10	Fri 17.12.10												
53	Reroute signal cables	3 days	Mon 20.12.10	Wed 22.12.10												
54	Install test experiment detectors	7 days	Thu 13.01.11	Fri 21.01.11												
55	Install interlock, emergency off, ...	7 days	Thu 13.01.11	Fri 21.01.11												
56																
57																
58	Finish shielding walls	2 days	Mon 24.01.11	Tue 25.01.11												
59	Install shielding ceiling	1 day?	Wed 26.01.11	Wed 26.01.11												
60	Final survey of target chamber	2 days	Tue 01.02.11	Wed 02.02.11												
61	Setup interlock in IR	1 day	Thu 03.02.11	Thu 03.02.11												
62																

ID		Task Name	Duration	Start	Finish	2012											
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
63		First beam	1 day?	Thu 10.02.11	Thu 10.02.11												
64		Commissioning with beam	2 edays	Thu 10.02.11	Sat 12.02.11												
65		Bake out at 4.5 GeV	5 edays	Sat 12.02.11	Thu 17.02.11												
66		2GeV studies, 6 OLYMPUS day shifts	6 edays	Thu 17.02.11	Wed 23.02.11												
67		Bake out (evening, night)	6 edays	Thu 17.02.11	Wed 23.02.11												
68		Radiation safety measurements	2 days	Wed 23.02.11	Thu 24.02.11												
69		Synchrotron radiation test run	3 edays	Thu 24.02.11	Sun 27.02.11												
70		Start synchrotron radiation run	1 day?	Mon 28.02.11	Mon 28.02.11												
71																	
72																	
73		Assembly of OLYMPUS detector	418 days	Mon 16.11.09	Wed 06.07.11												
74	✓	Design intermediate support frame	18 wks	Mon 16.11.09	Mon 29.03.10												
75	✓	Construct intermediate support frame	3 wks	Tue 08.06.10	Mon 28.06.10												
76		Assembly in park position	224 days	Mon 28.06.10	Wed 11.05.11												
77	✓	Assemble outer frames	3 wks	Mon 28.06.10	Fri 16.07.10												
78		Survey frames	3 days	Mon 19.07.10	Wed 21.07.10												
79	✓	Install lower coils	3 wks	Wed 04.08.10	Tue 24.08.10												
80	✓	Survey bottom coils	2 wks	Wed 25.08.10	Tue 07.09.10												
81	✓	Install upper coils	3 wks	Wed 08.09.10	Tue 28.09.10												
82	✓	Connect power cables	2 wks	Mon 05.07.10	Fri 16.07.10												
83	✓	Connect water cooling	2 wks	Wed 29.09.10	Tue 12.10.10												
84	✓	Survey and adjust coils	3 wks	Wed 13.10.10	Tue 02.11.10												
85		Power supply commissioning	1 wk	Wed 03.11.10	Tue 09.11.10												
86		Field measurements along beam line	1 wk	Wed 10.11.10	Tue 16.11.10												
87		Readjust coil position	1 wk	Wed 17.11.10	Tue 23.11.10												
88		Field measurement WC region	2 wks	Wed 24.11.10	Tue 07.12.10												
89	✓	Assemble subdetector frames	2 days	Wed 20.10.10	Thu 21.10.10												
90	✓	Install gas pipes (supply lines)	2 wks	Mon 04.10.10	Fri 15.10.10												
91		Field measurements WC region II	2 wks	Tue 08.02.11	Mon 21.02.11												
92		Route detector signal cables	1 wk	Mon 07.03.11	Fri 11.03.11												
93		Install TOFs	1 wk	Tue 05.04.11	Mon 11.04.11												
94		Install wire chambers	2 days	Tue 05.04.11	Wed 06.04.11												
95		WC cable and gas connections	1 wk	Thu 07.04.11	Wed 13.04.11												
96		Flush WC with gas	1 wk	Thu 14.04.11	Wed 20.04.11												
97		Survey and adjust wire chamber position	1 wk	Thu 07.04.11	Wed 13.04.11												
98		Wire chamber test with cosmics	1 mon	Thu 14.04.11	Wed 11.05.11												
99																	
100		Commission detector components	8 wks	Thu 12.05.11	Wed 06.07.11												
101		Test with toroid	3 wks	Thu 09.06.11	Wed 29.06.11												
102																	
103		Wire Chambers	303 days?	Mon 01.02.10	Tue 05.04.11												
104	✓	Check out wire chambers	1 mon	Mon 01.02.10	Fri 26.02.10												
105	✓	Ship wire chambers	1 mon	Mon 10.05.10	Fri 04.06.10												
106	✓	prepare clean room at DESY	1 mon	Mon 19.04.10	Fri 14.05.10												
107	✓	Wire chamber preparation	1 wk	Mon 07.06.10	Fri 11.06.10												

ID		Task Name	Duration	Start	Finish	2012											
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
108	✓	String wires	10 wks	Wed 30.06.10	Tue 07.09.10												
109		Design and produce HV boards	3 mons	Wed 03.11.10	Mon 31.01.11												
110		HV wiring	3 wks	Mon 10.01.11	Fri 28.01.11												
111		Mount HV boards	1 mon	Mon 31.01.11	Fri 25.02.11												
112		Move to DORIS hall	1 day?	Mon 07.03.11	Mon 07.03.11												
113		Flush with gas	1 wk	Tue 08.03.11	Mon 14.03.11												
114		HV tests	3 wks	Tue 15.03.11	Mon 04.04.11												
115		Mount in detector	1 day?	Tue 05.04.11	Tue 05.04.11												
116																	
117		MWPC	309 days?	Mon 03.05.10	Wed 13.07.11												
118	✓	Design, get materials	28 wks	Mon 03.05.10	Fri 12.11.10												
119		Fabrication, testing (1st 2 chambers)	10 wks	Mon 27.09.10	Fri 03.12.10												
120		First 2 chambers ready at DESY	0 days	Fri 10.12.10	Fri 10.12.10												
121		Testing with sources	1 wk	Mon 13.12.10	Fri 17.12.10												
122		Commission electronics/DAQ	3 wks	Mon 22.11.10	Fri 10.12.10												
123		HV, LV, cabling, gas system	3 wks	Mon 29.11.10	Fri 17.12.10												
124		Test run installation	5 days	Fri 14.01.11	Thu 20.01.11												
125		Test run	3 mons	Fri 21.01.11	Thu 14.04.11												
126		Cooling system mock-up, design, fabrication	5 mons	Mon 15.11.10	Thu 07.04.11												
127		Build and test remaining chambers	5 mons	Fri 21.01.11	Thu 09.06.11												
128		All chambers at DESY	1 day?	Fri 24.06.11	Fri 24.06.11												
129		Testing with sources	2 wks	Mon 27.06.11	Fri 08.07.11												
130		Final installation	3 days	Mon 11.07.11	Wed 13.07.11												
131																	
132		GEM Lumi Monitor	402 days	Mon 04.01.10	Mon 25.07.11												
133	✓	Finalize design	5 mons	Mon 04.01.10	Fri 21.05.10												
134	✓	Purchase GEM parts	2 mons	Mon 26.04.10	Fri 18.06.10												
135	✓	Partial assembly at MIT	3 mons	Mon 07.06.10	Fri 27.08.10												
136		Assembly at Hampton	6 mons	Mon 27.09.10	Thu 17.03.11												
137		Testing with cosmics, sources	3 mons	Fri 18.02.11	Thu 12.05.11												
138		Test beam at DESY	3 wks	Fri 06.05.11	Thu 26.05.11												
139		Install with main detector	2 days	Fri 22.07.11	Mon 25.07.11												
140																	
141		Time-of-Flight Counters (details not updated)	424 days?	Wed 28.04.10	Fri 16.12.11												
142	✓	Arrival of TOF modules and PMTs	1 day?	Mon 07.06.10	Mon 07.06.10												
143	✓	Preparation	2 wks	Tue 08.06.10	Mon 21.06.10												
144	✓	Check glue joints	2 days	Mon 28.06.10	Tue 29.06.10												
145	✓	Re-glue broken joints	1 wk	Wed 30.06.10	Tue 06.07.10												
146	✓	Re-wrap repaired modules	4 days	Wed 07.07.10	Mon 12.07.10												
147	✓	Check light pulser fibers	1 day?	Mon 28.06.10	Mon 28.06.10												
148	✓	Re-connect light fibers	2 days	Wed 30.06.10	Thu 01.07.10												
149	✓	PMT gain tests	2 wks	Tue 06.07.10	Mon 19.07.10												
150	✓	Flasher system	42 days	Mon 05.07.10	Tue 31.08.10												
157	✓	Module support	56 days?	Wed 28.04.10	Wed 14.07.10												
163	✓	Mount modules on back plates	2 days	Thu 15.07.10	Fri 16.07.10												

ID		Task Name	Duration	Start	Finish	2012											
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
164	✓	Remount PMTs on modules	3 days	Tue 20.07.10	Thu 22.07.10												
165	✓	Set up test stand	3 days	Mon 21.06.10	Wed 23.06.10												
166	✓	Cosmics test and gain matching	2 wks	Fri 23.07.10	Thu 05.08.10												
167	✓	Repairs & tests	1 mon	Fri 06.08.10	Thu 02.09.10												
168		Mount support on sub-det frame	1 wk	Mon 28.03.11	Fri 01.04.11												
169		Transport TOF to DORIS hall	1 day?	Mon 04.04.11	Mon 04.04.11												
170		TOF installation	2 wks	Tue 03.05.11	Mon 16.05.11												
171																	
172																	
173		GEM Tracker	140 days	Mon 06.06.11	Fri 16.12.11												
174		Design	2 mons	Mon 06.06.11	Fri 29.07.11												
175		Produce	3 mons	Mon 01.08.11	Fri 21.10.11												
176		Test	4 wks	Mon 24.10.11	Fri 18.11.11												
177		Pack and ship to DESY	4 wks	Mon 21.11.11	Fri 16.12.11												
178																	
179																	
180		Install OLYMPUS (STILL OLD VERSION)	26 days	Mon 11.07.11	Mon 15.08.11												
181		Disassemble interlocks	3 days	Mon 11.07.11	Wed 13.07.11												
182		Remove shielding	3 days	Thu 14.07.11	Mon 18.07.11												
183		Remove beamline	2 days	Tue 19.07.11	Wed 20.07.11												
184		Roll in detector	1 day	Thu 21.07.11	Thu 21.07.11												
185		Install cooling	2 days	Fri 22.07.11	Mon 25.07.11												
186		Connect power supply	2 days	Tue 26.07.11	Wed 27.07.11												
187		Install target chamber	1 day	Fri 22.07.11	Fri 22.07.11												
188		Survey	2 days	Mon 25.07.11	Tue 26.07.11												
189		Build shielding	3 days	Wed 27.07.11	Fri 29.07.11												
190		Install interlocks, etc.	3 days	Mon 01.08.11	Wed 03.08.11												
191		Test interlocks, etc.	2 days	Thu 04.08.11	Fri 05.08.11												
192		Setup with DORIS	6 days	Mon 08.08.11	Mon 15.08.11												
193																	
194																	
195		Detector commissioning	95 days	Tue 16.08.11	Mon 02.01.12												
196		Parasitic and during service periods	19 wks	Tue 16.08.11	Mon 02.01.12												
197		Maintenance	22 days	Fri 23.12.11	Mon 30.01.12												
198		First data period	25 edays	Mon 30.01.12	Fri 24.02.12												
199		Repair, upgrade, test	16 wks	Mon 27.02.12	Fri 15.06.12												
200		Second data period	9 wks	Mon 22.10.12	Fri 21.12.12												
201																	
202		Synchrotron radiation runs	950 days	Mon 09.02.09	Mon 22.10.12												
203		2009	315 edays	Mon 09.02.09	Mon 21.12.09												
204		2010	294 edays	Mon 15.02.10	Mon 06.12.10												
205		2011/1	132 edays	Mon 28.02.11	Sun 10.07.11												
206		2011/2	130 edays	Mon 15.08.11	Fri 23.12.11												
207		2012 Setup SR run	60 ehrs	Fri 24.02.12	Sun 26.02.12												
208		2012	238 edays	Mon 27.02.12	Mon 22.10.12												

ID	Task Name	Duration	Start	Finish	Dec	2013												
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0	OLYMPUS_10	1020 days?	Mon 05.01.09	Fri 21.12.12														
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4	Fabricate lead shielding	2 mons	Tue 01.03.11	Mon 25.04.11														
5																		
6	Target system and Beamline	356 days	Mon 24.08.09	Mon 17.01.11														
25	Spare target cell date ????	1 day?	Mon 05.01.09	Mon 05.01.09														
26																		
27	Modify IP region	57 days?	Mon 06.12.10	Mon 28.02.11														
28	Remove shielding (ceiling)	1 day	Mon 06.12.10	Mon 06.12.10														
29	Remove interlocks,... signal cables	4 days	Tue 07.12.10	Fri 10.12.10														
30	Open (4) quads	1 day	Tue 07.12.10	Tue 07.12.10														
31	Remove vacuum system, cavities and monitors	3 days	Wed 08.12.10	Fri 10.12.10														
32	Remove (4) quads and supports	2 days	Mon 13.12.10	Tue 14.12.10														
33	Install (4) magnet supports	3 days	Wed 15.12.10	Fri 17.12.10														
34	Install quad lower halves	1 day	Mon 20.12.10	Mon 20.12.10														
35	Install connection beam pipes and valves	2 days	Tue 21.12.10	Wed 22.12.10														
36	Close DORIS vacuum system (except IR)	0 days	Wed 22.12.10	Wed 22.12.10														
37	Close (4) quads	1 day?	Thu 23.12.10	Thu 23.12.10														
38	Remove top shielding	1 day?	Wed 15.12.10	Wed 15.12.10														
39	Install dust protection wall	1 day?	Wed 15.12.10	Wed 15.12.10														
40	Remove concrete floor	2 days	Thu 16.12.10	Fri 17.12.10														
41	Remove remaining shielding	3 days	Mon 20.12.10	Wed 22.12.10														
42	Install rear shielding	3 days	Thu 23.12.10	Thu 30.12.10														
43	Install bridge	4 days	Mon 03.01.11	Thu 06.01.11														
44	Install forward shielding	3 days	Fri 07.01.11	Tue 11.01.11														
45	Install shielding entrance	1 day?	Wed 12.01.11	Wed 12.01.11														
46	Install magnet girders	2 days	Thu 13.01.11	Fri 14.01.11														
47	Install 2 quad halves	1 day?	Mon 17.01.11	Mon 17.01.11														
48	Install vacuum system (target)	4 days	Tue 18.01.11	Fri 21.01.11														
49	Close vacuum	0 days	Fri 21.01.11	Fri 21.01.11														
50	Install shielding ceiling	1 day?	Mon 24.01.11	Mon 24.01.11														
51	Survey	3 days	Tue 25.01.11	Thu 27.01.11														
52	Install cavities SL	1 wk	Mon 13.12.10	Fri 17.12.10														
53	Reroute signal cables	3 days	Mon 20.12.10	Wed 22.12.10														
54	Install test experiment detectors	7 days	Thu 13.01.11	Fri 21.01.11														
55	Install interlock, emergency off, ...	7 days	Thu 13.01.11	Fri 21.01.11														
56																		
57																		
58	Finish shielding walls	2 days	Mon 24.01.11	Tue 25.01.11														
59	Install shielding ceiling	1 day?	Wed 26.01.11	Wed 26.01.11														
60	Final survey of target chamber	2 days	Tue 01.02.11	Wed 02.02.11														
61	Setup interlock in IR	1 day	Thu 03.02.11	Thu 03.02.11														
62																		

ID		Task Name	Duration	Start	Finish	2013												
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
63		First beam	1 day?	Thu 10.02.11	Thu 10.02.11													
64		Commissioning with beam	2 edays	Thu 10.02.11	Sat 12.02.11													
65		Bake out at 4.5 GeV	5 edays	Sat 12.02.11	Thu 17.02.11													
66		2GeV studies, 6 OLYMPUS day shifts	6 edays	Thu 17.02.11	Wed 23.02.11													
67		Bake out (evening, night)	6 edays	Thu 17.02.11	Wed 23.02.11													
68		Radiation safety measurements	2 days	Wed 23.02.11	Thu 24.02.11													
69		Synchrotron radiation test run	3 edays	Thu 24.02.11	Sun 27.02.11													
70		Start synchrotron radiation run	1 day?	Mon 28.02.11	Mon 28.02.11													
71																		
72																		
73		Assembly of OLYMPUS detector	418 days	Mon 16.11.09	Wed 06.07.11													
74	✓	Design intermediate support frame	18 wks	Mon 16.11.09	Mon 29.03.10													
75	✓	Construct intermediate support frame	3 wks	Tue 08.06.10	Mon 28.06.10													
76		Assembly in park position	224 days	Mon 28.06.10	Wed 11.05.11													
77	✓	Assemble outer frames	3 wks	Mon 28.06.10	Fri 16.07.10													
78		Survey frames	3 days	Mon 19.07.10	Wed 21.07.10													
79	✓	Install lower coils	3 wks	Wed 04.08.10	Tue 24.08.10													
80	✓	Survey bottom coils	2 wks	Wed 25.08.10	Tue 07.09.10													
81	✓	Install upper coils	3 wks	Wed 08.09.10	Tue 28.09.10													
82	✓	Connect power cables	2 wks	Mon 05.07.10	Fri 16.07.10													
83	✓	Connect water cooling	2 wks	Wed 29.09.10	Tue 12.10.10													
84	✓	Survey and adjust coils	3 wks	Wed 13.10.10	Tue 02.11.10													
85		Power supply commissioning	1 wk	Wed 03.11.10	Tue 09.11.10													
86		Field measurements along beam line	1 wk	Wed 10.11.10	Tue 16.11.10													
87		Readjust coil position	1 wk	Wed 17.11.10	Tue 23.11.10													
88		Field measurement WC region	2 wks	Wed 24.11.10	Tue 07.12.10													
89	✓	Assemble subdetector frames	2 days	Wed 20.10.10	Thu 21.10.10													
90	✓	Install gas pipes (supply lines)	2 wks	Mon 04.10.10	Fri 15.10.10													
91		Field measurements WC region II	2 wks	Tue 08.02.11	Mon 21.02.11													
92		Route detector signal cables	1 wk	Mon 07.03.11	Fri 11.03.11													
93		Install TOFs	1 wk	Tue 05.04.11	Mon 11.04.11													
94		Install wire chambers	2 days	Tue 05.04.11	Wed 06.04.11													
95		WC cable and gas connections	1 wk	Thu 07.04.11	Wed 13.04.11													
96		Flush WC with gas	1 wk	Thu 14.04.11	Wed 20.04.11													
97		Survey and adjust wire chamber position	1 wk	Thu 07.04.11	Wed 13.04.11													
98		Wire chamber test with cosmics	1 mon	Thu 14.04.11	Wed 11.05.11													
99																		
100		Commission detector components	8 wks	Thu 12.05.11	Wed 06.07.11													
101		Test with toroid	3 wks	Thu 09.06.11	Wed 29.06.11													
102																		
103		Wire Chambers	303 days?	Mon 01.02.10	Tue 05.04.11													
104	✓	Check out wire chambers	1 mon	Mon 01.02.10	Fri 26.02.10													
105	✓	Ship wire chambers	1 mon	Mon 10.05.10	Fri 04.06.10													
106	✓	prepare clean room at DESY	1 mon	Mon 19.04.10	Fri 14.05.10													
107	✓	Wire chamber preparation	1 wk	Mon 07.06.10	Fri 11.06.10													

ID		Task Name	Duration	Start	Finish	2013													
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
108	✓	String wires	10 wks	Wed 30.06.10	Tue 07.09.10														
109		Design and produce HV boards	3 mons	Wed 03.11.10	Mon 31.01.11														
110		HV wiring	3 wks	Mon 10.01.11	Fri 28.01.11														
111		Mount HV boards	1 mon	Mon 31.01.11	Fri 25.02.11														
112		Move to DORIS hall	1 day?	Mon 07.03.11	Mon 07.03.11														
113		Flush with gas	1 wk	Tue 08.03.11	Mon 14.03.11														
114		HV tests	3 wks	Tue 15.03.11	Mon 04.04.11														
115		Mount in detector	1 day?	Tue 05.04.11	Tue 05.04.11														
116																			
117		MWPC	309 days?	Mon 03.05.10	Wed 13.07.11														
118	✓	Design, get materials	28 wks	Mon 03.05.10	Fri 12.11.10														
119		Fabrication, testing (1st 2 chambers)	10 wks	Mon 27.09.10	Fri 03.12.10														
120		First 2 chambers ready at DESY	0 days	Fri 10.12.10	Fri 10.12.10														
121		Testing with sources	1 wk	Mon 13.12.10	Fri 17.12.10														
122		Commission electronics/DAQ	3 wks	Mon 22.11.10	Fri 10.12.10														
123		HV, LV, cabling, gas system	3 wks	Mon 29.11.10	Fri 17.12.10														
124		Test run installation	5 days	Fri 14.01.11	Thu 20.01.11														
125		Test run	3 mons	Fri 21.01.11	Thu 14.04.11														
126		Cooling system mock-up, design, fabrication	5 mons	Mon 15.11.10	Thu 07.04.11														
127		Build and test remaining chambers	5 mons	Fri 21.01.11	Thu 09.06.11														
128		All chambers at DESY	1 day?	Fri 24.06.11	Fri 24.06.11														
129		Testing with sources	2 wks	Mon 27.06.11	Fri 08.07.11														
130		Final installation	3 days	Mon 11.07.11	Wed 13.07.11														
131																			
132		GEM Lumi Monitor	402 days	Mon 04.01.10	Mon 25.07.11														
133	✓	Finalize design	5 mons	Mon 04.01.10	Fri 21.05.10														
134	✓	Purchase GEM parts	2 mons	Mon 26.04.10	Fri 18.06.10														
135	✓	Partial assembly at MIT	3 mons	Mon 07.06.10	Fri 27.08.10														
136		Assembly at Hampton	6 mons	Mon 27.09.10	Thu 17.03.11														
137		Testing with cosmics, sources	3 mons	Fri 18.02.11	Thu 12.05.11														
138		Test beam at DESY	3 wks	Fri 06.05.11	Thu 26.05.11														
139		Install with main detector	2 days	Fri 22.07.11	Mon 25.07.11														
140																			
141		Time-of-Flight Counters (details not updated)	424 days?	Wed 28.04.10	Fri 16.12.11														
142	✓	Arrival of TOF modules and PMTs	1 day?	Mon 07.06.10	Mon 07.06.10														
143	✓	Preparation	2 wks	Tue 08.06.10	Mon 21.06.10														
144	✓	Check glue joints	2 days	Mon 28.06.10	Tue 29.06.10														
145	✓	Re-glue broken joints	1 wk	Wed 30.06.10	Tue 06.07.10														
146	✓	Re-wrap repaired modules	4 days	Wed 07.07.10	Mon 12.07.10														
147	✓	Check light pulser fibers	1 day?	Mon 28.06.10	Mon 28.06.10														
148	✓	Re-connect light fibers	2 days	Wed 30.06.10	Thu 01.07.10														
149	✓	PMT gain tests	2 wks	Tue 06.07.10	Mon 19.07.10														
150	✓	Flasher system	42 days	Mon 05.07.10	Tue 31.08.10														
157	✓	Module support	56 days?	Wed 28.04.10	Wed 14.07.10														
163	✓	Mount modules on back plates	2 days	Thu 15.07.10	Fri 16.07.10														

ID		Task Name	Duration	Start	Finish	2013												
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
164	✓	Remount PMTs on modules	3 days	Tue 20.07.10	Thu 22.07.10													
165	✓	Set up test stand	3 days	Mon 21.06.10	Wed 23.06.10													
166	✓	Cosmics test and gain matching	2 wks	Fri 23.07.10	Thu 05.08.10													
167	✓	Repairs & tests	1 mon	Fri 06.08.10	Thu 02.09.10													
168	📅	Mount support on sub-det frame	1 wk	Mon 28.03.11	Fri 01.04.11													
169		Transport TOF to DORIS hall	1 day?	Mon 04.04.11	Mon 04.04.11													
170		TOF installation	2 wks	Tue 03.05.11	Mon 16.05.11													
171																		
172																		
173		GEM Tracker	140 days	Mon 06.06.11	Fri 16.12.11													
174	📅	Design	2 mons	Mon 06.06.11	Fri 29.07.11													
175		Produce	3 mons	Mon 01.08.11	Fri 21.10.11													
176		Test	4 wks	Mon 24.10.11	Fri 18.11.11													
177		Pack and ship to DESY	4 wks	Mon 21.11.11	Fri 16.12.11													
178																		
179																		
180		Install OLYMPUS (STILL OLD VERSION)	26 days	Mon 11.07.11	Mon 15.08.11													
181	📅	Disassemble interlocks	3 days	Mon 11.07.11	Wed 13.07.11													
182		Remove shielding	3 days	Thu 14.07.11	Mon 18.07.11													
183		Remove beamline	2 days	Tue 19.07.11	Wed 20.07.11													
184		Roll in detector	1 day	Thu 21.07.11	Thu 21.07.11													
185		Install cooling	2 days	Fri 22.07.11	Mon 25.07.11													
186		Connect power supply	2 days	Tue 26.07.11	Wed 27.07.11													
187		Install target chamber	1 day	Fri 22.07.11	Fri 22.07.11													
188		Survey	2 days	Mon 25.07.11	Tue 26.07.11													
189		Build shielding	3 days	Wed 27.07.11	Fri 29.07.11													
190		Install interlocks, etc.	3 days	Mon 01.08.11	Wed 03.08.11													
191		Test interlocks, etc.	2 days	Thu 04.08.11	Fri 05.08.11													
192		Setup with DORIS	6 days	Mon 08.08.11	Mon 15.08.11													
193																		
194																		
195		Detector commissioning	95 days	Tue 16.08.11	Mon 02.01.12													
196		Parasitic and during service periods	19 wks	Tue 16.08.11	Mon 02.01.12													
197		Maintenance	22 days	Fri 23.12.11	Mon 30.01.12													
198		First data period	25 edays	Mon 30.01.12	Fri 24.02.12													
199		Repair, upgrade, test	16 wks	Mon 27.02.12	Fri 15.06.12													
200		Second data period	9 wks	Mon 22.10.12	Fri 21.12.12	🟢												
201																		
202		Synchrotron radiation runs	950 days	Mon 09.02.09	Mon 22.10.12													
203	📅	2009	315 edays	Mon 09.02.09	Mon 21.12.09													
204	📅	2010	294 edays	Mon 15.02.10	Mon 06.12.10													
205	📅	2011/1	132 edays	Mon 28.02.11	Sun 10.07.11													
206	📅	2011/2	130 edays	Mon 15.08.11	Fri 23.12.11													
207	📅	2012 Setup SR run	60 ehms	Fri 24.02.12	Sun 26.02.12													
208	📅	2012	238 edays	Mon 27.02.12	Mon 22.10.12													