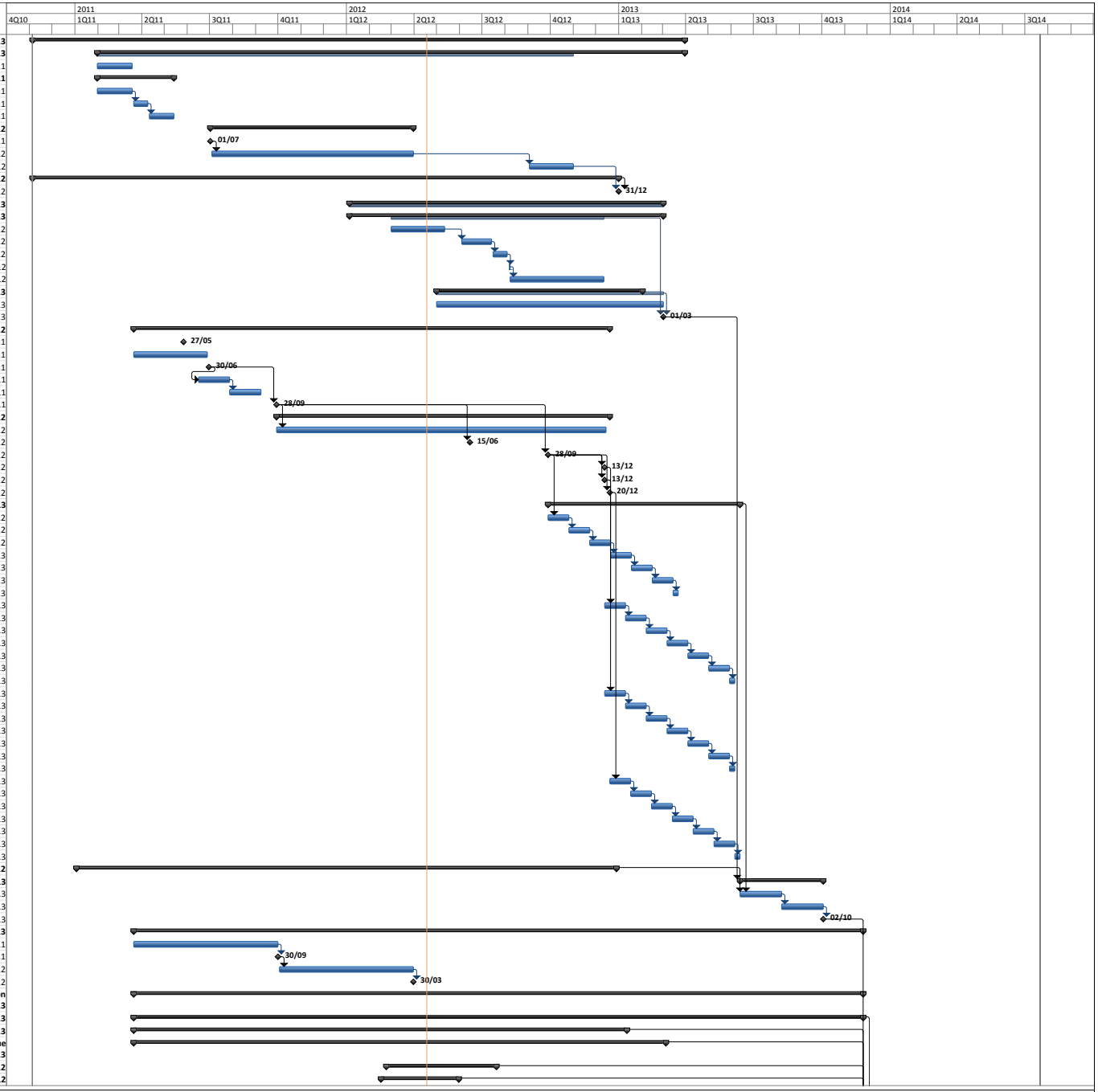
ID	Task Name	Duration	Start	Finish
1	**SM18 test infrastructure**	**626 days**	**Fri 05/11/10**	**Sat 30/03/13**
2	**Cryogenics distribution line**	**566 days**	**Mon 31/01/11**	**Sat 30/03/13**
3	Cryoline specification	7 wks	Mon 31/01/11	Fri 18/03/11
4	**Design**	**75 days**	**Mon 31/01/11**	**Fri 13/05/11**
5	Cryoline design	7 wks	Mon 31/01/11	Fri 18/03/11
6	RF service Module design	3 wks	Mon 21/03/11	Fri 08/04/11
7	Auxilliary equipment	5 wks	Mon 11/04/11	Fri 13/05/11
8	**Construction and procurement**	**195 days**	**Fri 01/07/11**	**Fri 30/03/12**
9	Procurement of critical components	0 days	Fri 01/07/11	Fri 01/07/11
10	Construction and procurement	39 wks	Mon 04/07/11	Fri 30/03/12
11	**Installation**	43 days	Mon 03/09/12	Wed 31/10/12
12	**RF infrastructure**	**562 days**	**Fri 05/11/10**	**Mon 31/12/12**
138	SM18 test infrastructure ready	0 days	Mon 31/12/12	Mon 31/12/12
139	**SM18 Clean Room**	**302 days**	**Thu 05/01/12**	**Fri 01/03/13**
140	**Clean Room upgrade**	**302 days**	**Thu 05/01/12**	**Fri 01/03/13**
141	Tech. spec.	52 days	Thu 01/03/12	Fri 11/05/12
142	Call for tender	30 days	Mon 04/06/12	Fri 13/07/12
143	Assessment of offers	15 days	Mon 16/07/12	Fri 03/08/12
144	Signature of contract	1 day	Tue 07/08/12	Tue 07/08/12
145	Upgrade activity	18 wks	Wed 08/08/12	Tue 11/12/12
146	**SPL specific tooling**	**199 days**	**Tue 01/05/12**	**Fri 01/02/13**
147	Design & fabrication	219 days	Tue 01/05/12	Fri 01/03/13
148	SM18 Clean Room ready for SPL	0 days	Fri 01/03/13	Fri 01/03/13
149	**Cavities production**	**458 days**	**Mon 21/03/11**	**Thu 20/12/12**
150	Niobium delivery	0 days	Fri 27/05/11	Fri 27/05/11
151	Cavities design (incl. detailed design)	71 days	Mon 21/03/11	Mon 27/06/11
152	Cavities design validation	0 days	Thu 30/06/11	Thu 30/06/11
153	Tech. spec.	6 wks	Thu 16/06/11	Wed 27/07/11
154	Call for tender	6 wks	Thu 28/07/11	Wed 07/09/11
155	Signature of contract	0 days	Wed 28/09/11	Wed 28/09/11
156	**Cavities production**	**320 days**	**Thu 29/09/11**	**Thu 20/12/12**
157	Production	317 days	Thu 29/09/11	Fri 14/12/12
158	Delivery of monocell	0 days	Fri 15/06/12	Fri 15/06/12
159	Cavity 1	0 days	Fri 28/09/12	Fri 28/09/12
160	Cavity 2	0 days	Thu 13/12/12	Thu 13/12/12
161	Cavity 3	0 days	Thu 13/12/12	Thu 13/12/12
162	Cavity 4	0 days	Thu 20/12/12	Thu 20/12/12
163	**Cavities processing/vertical testing (SM18)/dressing**	**184 days**	**Fri 28/09/12**	**Wed 12/06/13**
164	Cavity 1 processing 1	4 wks	Fri 28/09/12	Thu 25/10/12
165	Cavity 1 testing 1	4 wks	Fri 26/10/12	Thu 22/11/12
166	Cavity 1 processing 2	4 wks	Fri 23/11/12	Thu 20/12/12
167	Cavity 1 testing 2	4 wks	Fri 21/12/12	Thu 17/01/13
168	Cavity 1 processing 3	4 wks	Fri 18/01/13	Thu 14/02/13
169	Cavity 1 testing 3 (final)	4 wks	Fri 15/02/13	Thu 14/03/13
170	Insertion of cavity 1 in helium vessel 1	1 wk	Fri 15/03/13	Thu 21/03/13
171	Cavity 2 processing 1	4 wks	Thu 13/12/12	Wed 09/01/13
172	Cavity 2 testing 1	4 wks	Thu 10/01/13	Wed 06/02/13
173	Cavity 2 processing 2	4 wks	Thu 07/02/13	Wed 06/03/13
174	Cavity 2 testing 2	4 wks	Thu 07/03/13	Wed 03/04/13
175	Cavity 2 processing 3	4 wks	Thu 04/04/13	Wed 01/05/13
176	Cavity 2 testing 3 (final)	4 wks	Thu 02/05/13	Wed 29/05/13
177	Insertion of cavity 2 in helium vessel 2	1 wk	Thu 30/05/13	Wed 05/06/13
178	Cavity 3 processing 1	4 wks	Thu 13/12/12	Wed 09/01/13
179	Cavity 3 testing 1	4 wks	Thu 10/01/13	Wed 06/02/13
180	Cavity 3 processing 2	4 wks	Thu 07/02/13	Wed 06/03/13
181	Cavity 3 testing 2	4 wks	Thu 07/03/13	Wed 03/04/13
182	Cavity 3 processing 3	4 wks	Thu 04/04/13	Wed 01/05/13
183	Cavity 3 testing 3 (final)	4 wks	Thu 02/05/13	Wed 29/05/13
184	Insertion of cavity 3 in helium vessel 3	1 wk	Thu 30/05/13	Wed 05/06/13
185	Cavity 4 processing 1	4 wks	Thu 20/12/12	Wed 16/01/13
186	Cavity 4 testing 1	4 wks	Thu 17/01/13	Wed 13/02/13
187	Cavity 4 processing 2	4 wks	Thu 14/02/13	Wed 13/03/13
188	Cavity 4 testing 2	4 wks	Thu 14/03/13	Wed 10/04/13
189	Cavity 4 processing 3	4 wks	Thu 11/04/13	Wed 08/05/13
190	Cavity 4 testing 3 (final)	4 wks	Thu 09/05/13	Wed 05/06/13
191	Insertion of cavity 4 in helium vessel 4	1 wk	Thu 06/06/13	Wed 12/06/13
192	**Couplers**	**520 days**	**Mon 03/01/11**	**Fri 28/12/12**
203	**Clean room assembly**	**80 days**	**Thu 13/06/13**	**Wed 02/10/13**
204	Cavities - coupler assembly	8 wks	Thu 13/06/13	Wed 07/08/13
205	Assembly of string of 4 cavities	8 wks	Thu 08/08/13	Wed 02/10/13
206	String of cavities rolls out of clean rom	0 days	Wed 02/10/13	Wed 02/10/13
207	**Cryomodule design & fabrication**	**700.88 days?**	**Mon 21/03/11**	**Mon 25/11/13**
208	Conceptual design	28 wks	Mon 21/03/11	Fri 30/09/11
209	Conceptual design review	0 days	Fri 30/09/11	Fri 30/09/11
210	Detailed design	26 wks	Mon 03/10/11	Fri 30/03/12
211	Detailed design review	0 days	Fri 30/03/12	Fri 30/03/12
212	**Procurement of cryomodule components & assembly tooling**	**700.88 days?**	**Mon 21/03/11**	**Mon 25/11/13**
213	**Vacuum vessel**	**700.88 days**	**Mon 21/03/11**	**Mon 25/11/13**
225	**Thermal shield**	**475 days**	**Mon 21/03/11**	**Fri 11/01/13**
235	**Cryogenics distribution (ph.separator, cryo lines,...)**	**511.38 days**	**Mon 21/03/11**	**Tue 05/03/13**
244	**Magnetic shielding**	**106.25 days?**	**Thu 23/02/12**	**Fri 20/07/12**
252	**Instrumentation**	**74.88 days?**	**Thu 16/02/12**	**Wed 30/05/12**



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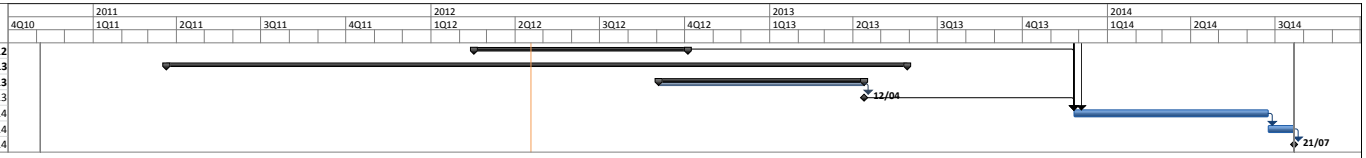
Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Deadline | Progress

ID		Task Name	Duration	Start	Finish
258		**Technical Service Module**	**165.63 days?**	**Thu 16/02/12**	**Thu 04/10/12**
265		**Valve Box**	**572.63 days**	**Mon 21/03/11**	**Wed 29/05/13**
283		**Cryomodule assembly tooling**	**8 mons**	**Mon 03/09/12**	**Fri 12/04/13**
293		Tooling ready for cryomodule assembly	0 days	Fri 12/04/13	Fri 12/04/13
294		**Cryomodule assembly**	30 wks	Mon 25/11/13	Mon 23/06/14
295		**Cryomodule connection in RF bunker (SM18)**	4 wks	Mon 23/06/14	Mon 21/07/14
296		**Start 1st cryomodule test campaign**	0 days	Mon 21/07/14	Mon 21/07/14



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Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Deadline	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Progress	