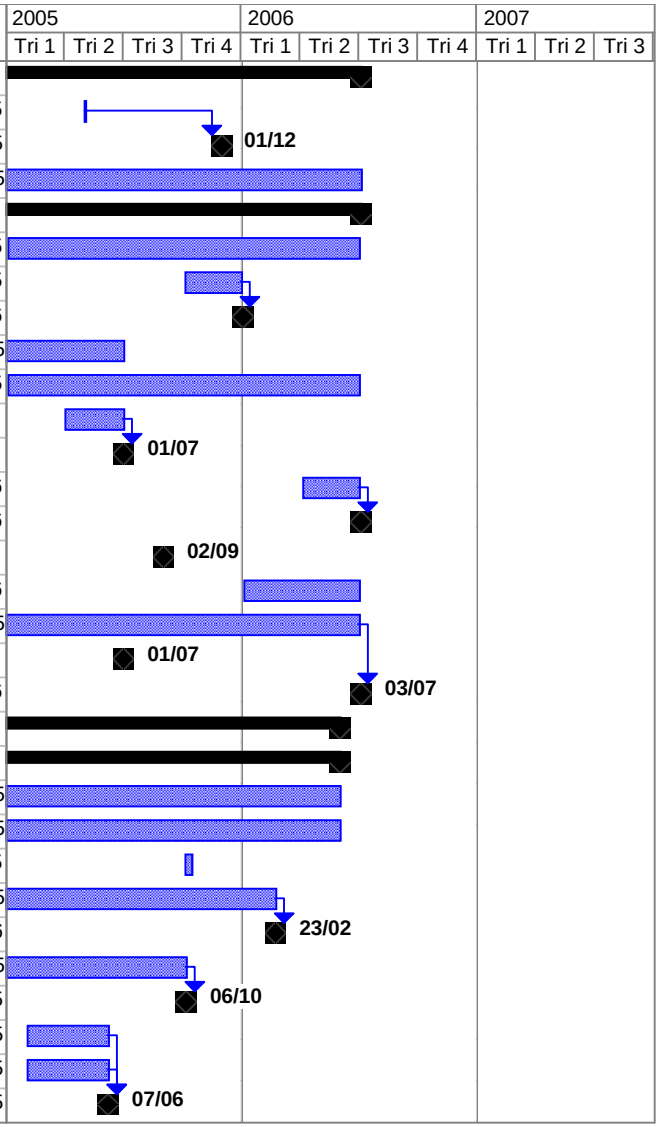
D. DETAILED IMPLEMENTATION PLAN FOR THE NEXT 18 MONTHS

The following Gantt charts present the updated detailed implementation plan for the next 18 months for the three CARE networking activities and the four CARE joint research activities. They are supplemented by tables providing the corresponding financial information.

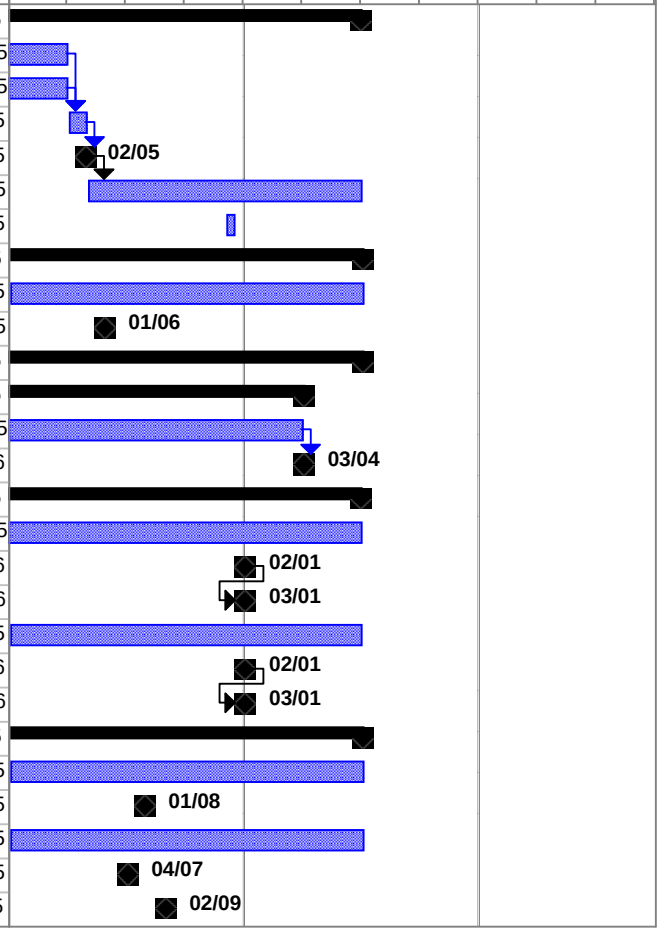
NETWORKING ACTIVITIES (other than Management)

N1 Electron Linear Accelerator Network (ELAN)

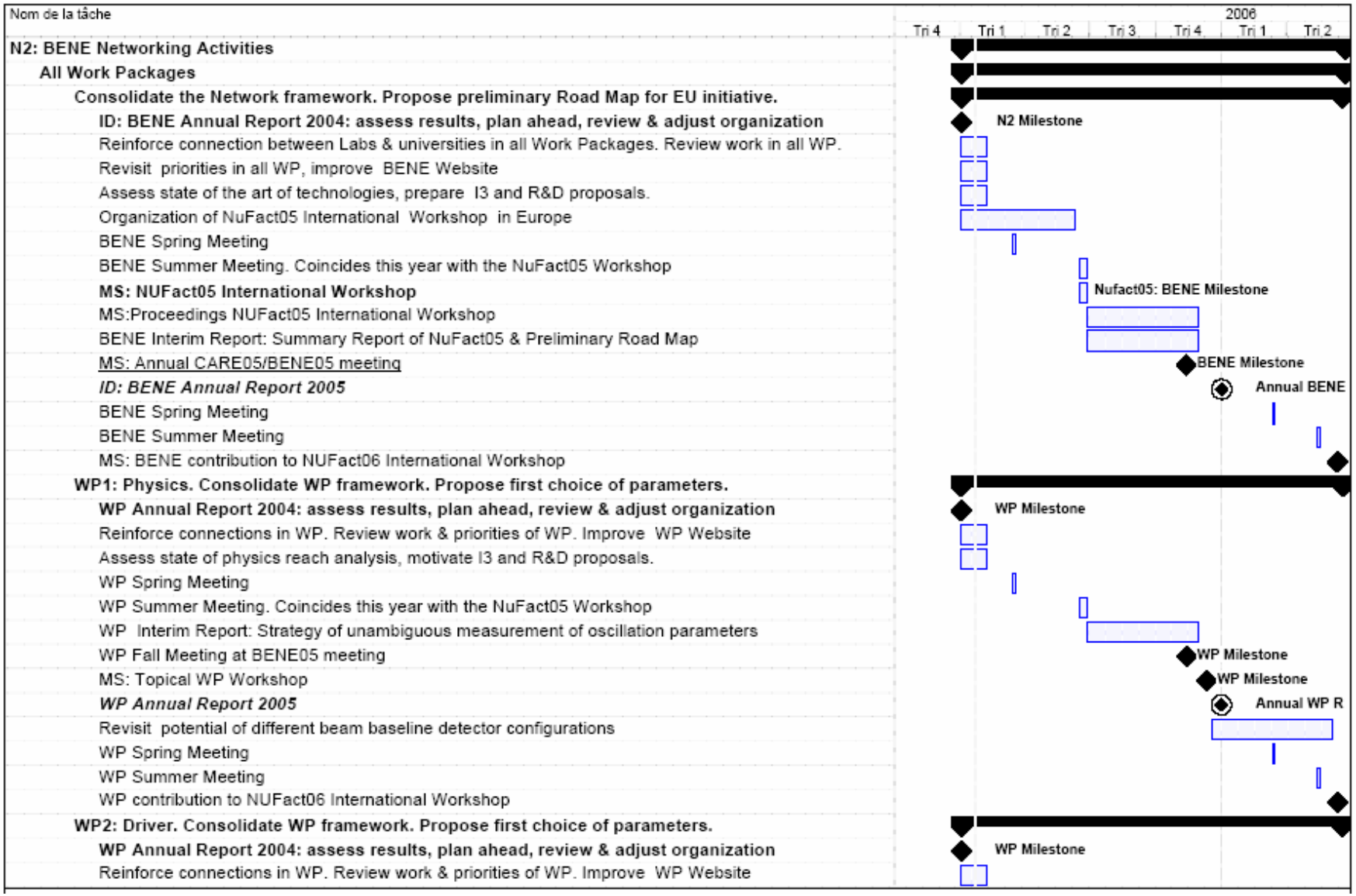
Nº	Task Name	Début
1	**Review of network activity**	**Sam 01/01/05**
2	Annual Meeting	Lun 02/05/05
3	Annual Report	Jeu 01/12/05
4	Coordination with EUROTeV	Sam 01/01/05
5	**WP 1**	**Sam 01/01/05**
6	Progress on CTF3	Lun 03/01/05
7	CTF3 Review	Lun 03/10/05
8	CTF Proceedings	Lun 02/01/06
9	Review of benchmarks and workplan	Sam 01/01/05
10	Progress on LTECNC topics, incl. topics common with other WP	Lun 03/01/05
11	Workshop on topical activity status	Ven 01/04/05
12	Workshop report	Ven 01/07/05
13	Workshop on topical activity status	Lun 03/04/06
14	Workshop report	Lun 03/07/06
15	Complementing data base and documentation	Ven 02/09/05
16	Review of structure prototype results	Lun 02/01/06
17	Review on sources including outcome of PHIN	Sam 01/01/05
18	Report on status of sources	Ven 01/07/05
19	Report on status of sources	Lun 03/07/06
20	**WP 2**	**Sam 01/01/05**
21	**ILC Technology Development**	**Sam 01/01/05**
22	Monitor ILC preparation	Sam 01/01/05
23	Coordinate Work together with EUROTeV	Sam 01/01/05
24	Courses on SC technology at CERN Accelerator School	Lun 03/10/05
25	Build Database for SRF	Sam 01/01/05
26	MS: Database	Jeu 23/02/06
27	Develop cavity reliability roadmap	Sam 01/01/05
28	MS: Workshop (TESLA Meeting II)	Jeu 06/10/05
29	Evaluation of quality control	Mar 01/02/05
30	Evaluation of cleaning methods	Mar 01/02/05
31	MS: Workshop (TESLA Meeting I)	Mar 07/06/05

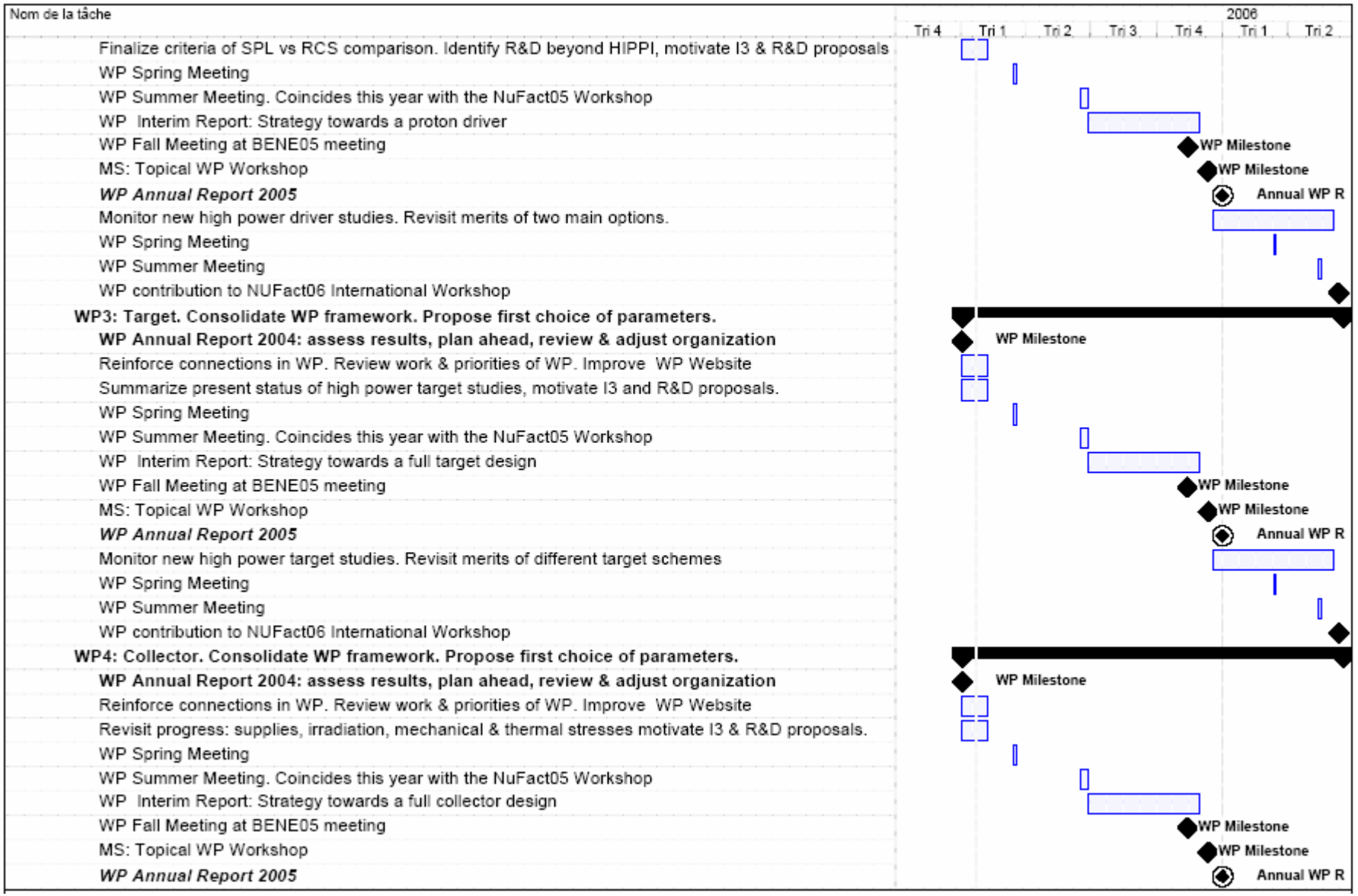


Nº	Task Name	Début
32	**WP 3**	**Sam 01/01/05**
33	Identification of code extensions	Sam 01/01/05
34	Definition of interfaces	Sam 01/01/05
35	Workshop on Emittance preservation	Lun 04/04/05
36	ID: Report	Lun 02/05/05
37	Interations on code extensions/interfaces	Mar 03/05/05
38	EUROTeV / ELAN Workshop	Lun 05/12/05
39	**WP 4**	**Lun 03/01/05**
40	Coordinate R&D	Lun 03/01/05
41	Create WWW site	Mer 01/06/05
42	**WP 5**	**Sam 01/01/05**
43	**Monitor and coordinate strudies on short pulse injectors**	**Sam 01/01/05**
44	Compare status of all-optical and RF injectors in view of recent progress	Sam 01/01/05
45	ID: Report	Lun 03/04/06
46	**Extended plasma wave excitation**	**Sam 01/01/05**
47	Evaluate existing laser guiding techniques	Sam 01/01/05
48	MS: Database	Lun 02/01/06
49	ID: Document	Mar 03/01/06
50	Identify optical diagnostics	Lun 03/01/05
51	MS: Database	Lun 02/01/06
52	ID: Document	Mar 03/01/06
53	**Electron beam focusing and transport**	**Lun 03/01/05**
54	Identify main issues	Lun 03/01/05
55	MS: Workshop	Lun 01/08/05
56	Coordinate European Proposals	Lun 03/01/05
57	Meeting	Lun 04/07/05
58	RTN proposal	Ven 02/09/05

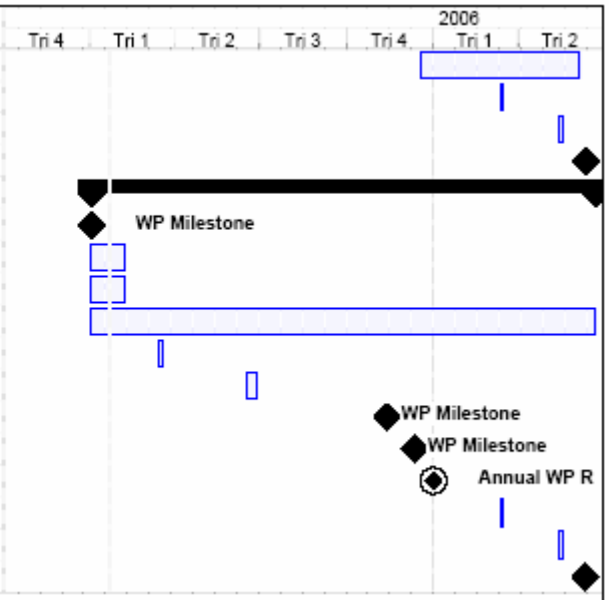


N2 Beam for European Neutrino Physics (BENE)



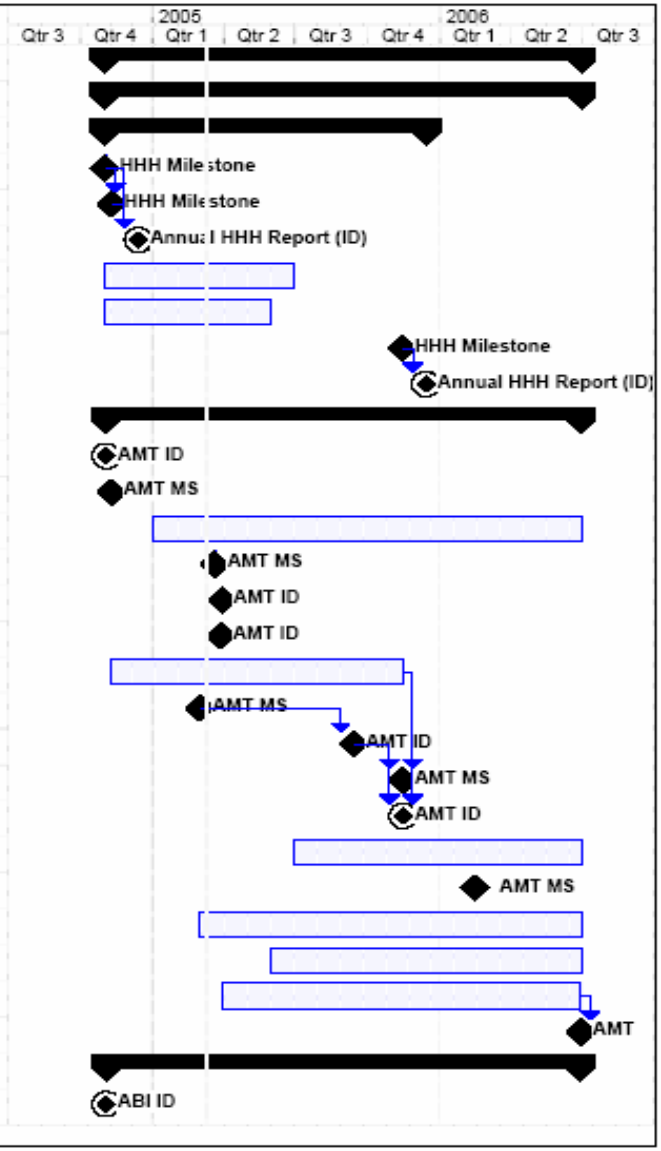

Nom de la tâche
2006
Tri 4
Tri 1
Tri 2
Tri 3
Tri 4
Tri 1
Tri 2
Finalize criteria of SPL vs RCS comparison. Identify R&D beyond HIPPI, motivate I3 & R&D proposals
WP Spring Meeting
WP Summer Meeting. Coincides this year with the NuFact05 Workshop
WP Interim Report: Strategy towards a proton driver
WP Fall Meeting at BENE05 meeting
MS: Topical WP Workshop
WP Annual Report 2005
Monitor new high power driver studies. Revisit merits of two main options.
WP Spring Meeting
WP Summer Meeting
WP contribution to NUFact06 International Workshop
WP3: Target. Consolidate WP framework. Propose first choice of parameters.
WP Annual Report 2004: assess results, plan ahead, review & adjust organization
Reinforce connections in WP. Review work & priorities of WP. Improve WP Website
Summarize present status of high power target studies, motivate I3 and R&D proposals.
WP Spring Meeting
WP Summer Meeting. Coincides this year with the NuFact05 Workshop
WP Interim Report: Strategy towards a full target design
WP Fall Meeting at BENE05 meeting
MS: Topical WP Workshop
WP Annual Report 2005
Monitor new high power target studies. Revisit merits of different target schemes
WP Spring Meeting
WP Summer Meeting
WP contribution to NUFact06 International Workshop
WP4: Collector. Consolidate WP framework. Propose first choice of parameters.
WP Annual Report 2004: assess results, plan ahead, review & adjust organization
Reinforce connections in WP. Review work & priorities of WP. Improve WP Website
Revisit progress: supplies, irradiation, mechanical & thermal stresses motivate I3 & R&D proposals.
WP Spring Meeting
WP Summer Meeting. Coincides this year with the NuFact05 Workshop
WP Interim Report: Strategy towards a full collector design
WP Fall Meeting at BENE05 meeting
MS: Topical WP Workshop
WP Annual Report 2005
WP Milestone
WP Milestone
Annual WP R
WP Milestone
WP Milestone
Annual WP R
WP Milestone
WP Milestone
Annual WP R

Nom de la tâche
Monitor new high power collector studies. Revisit merits of different collector schemes
WP Spring Meeting
WP Summer Meeting
WP contribution to NUFact06 International Workshop
WP5: Novel Neutrino Beams. Consolidate WP framework. Propose first choice of parameters.
WP Annual Report 2004: assess results, plan ahead, review & adjust organization
Reinforce connections in WP. Review work & priorities of WP. Improve the 3 WP sub Websites
Review of existing designs for NuFact and Betabeams, motivate I3 and R&D proposals.
Verify & Reinforce dissemination mechanisms
WP Spring Meeting
WP Summer Meeting. Coincides this year with the NuFact05 Workshop
WP Fall Meeting at BENE05 meeting
MS: Topical WP Workshop
WP Annual Report 2005
WP Spring Meeting
WP Summer Meeting
WP contribution to NUFact06 International Workshop

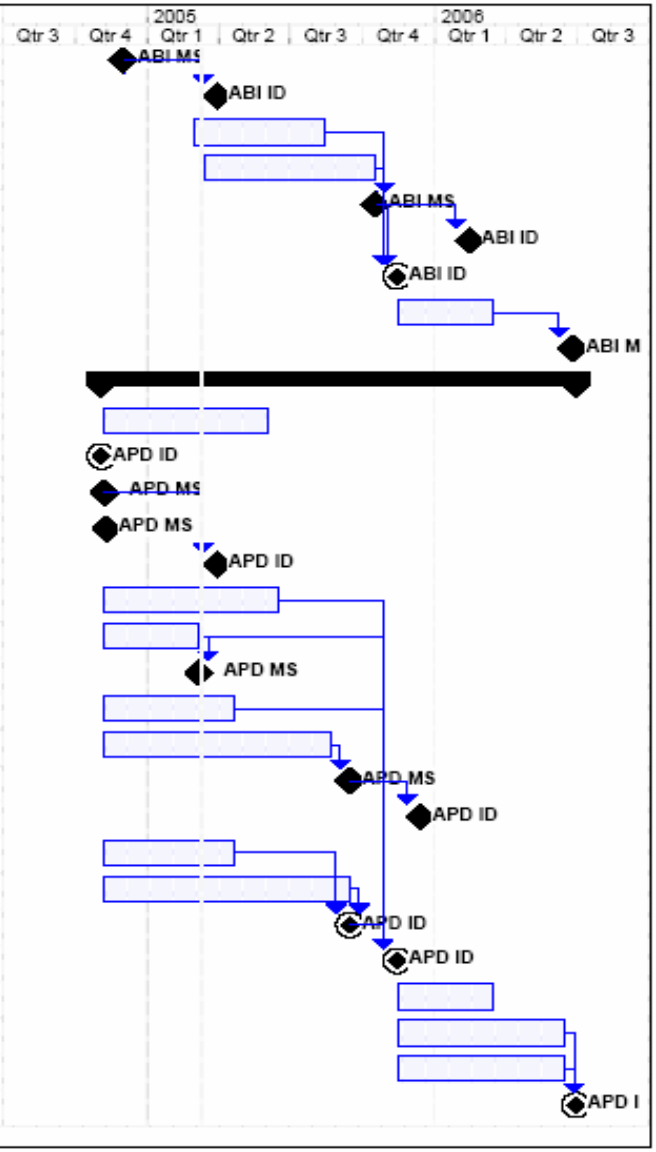


N3 High Energy High Intensity Hadron Beams (HHH)

ID	Task Name
1	**N3: HHH Networking Activities**
2	**All Work Packages**
3	**Establish the Network framework**
4	MS: Joint HHH/NED meeting at CARE04
5	General HHH meeting at CERN including non-EU partners
6	ID: HHH Annual Report
7	Reinforce connections between Labs and Universities in all WP
8	Revisit priorities for all WP, improve HHH web site
9	MS: Annual HHH meeting
10	ID: HHH Annual Report
11	**WP1 Accelerator Magnet Technology (AMT)**
12	ID: Interim report on AMT activities and reporting at the general CARE meeting
13	MS: General AMT meeting
14	Coordinate conductor development and tests
15	MS: AMT topical meeting on Insulation and Impregnation Techniques
16	ID: Proceedings of the 1st AMT topical workshop on Accelerator Magnet Superconductors
17	ID: Report on AMT organization and conductor development roadmap
18	Codes and models for design, stability and protection studies for AMT1 and AMT4
19	MS: AMT mini-workshop on Beam Generated Heat and Magnet Quench Level
20	ID: Proceedings of AMT mini-workshop on Beam Generated Heat and Magnet Quench Level
21	MS: establish a catolog of existing codes for design, stability and protection studies
22	ID: Interim report on AMT activities and reporting at the general CARE meeting
23	Catalog and comparison of different IR options (AMT4)
24	MS: AMT workshop on Contact Tooling
25	Studies of fast pulsed SC magnets for Super-SPS
26	Comparative studies of alternatives using low field magnets for AMT2 and AMT3
27	Determination of scaling law for magnet and cryogenic cost for AMT5
28	MS: Preliminary report on scaling law for magnet and cryogenic cost (roadmap)
29	**WP2 Accelerator Beam Instrumentation (ABI)**
30	ID: Interim report on ABI activities and reporting at the general CARE meeting

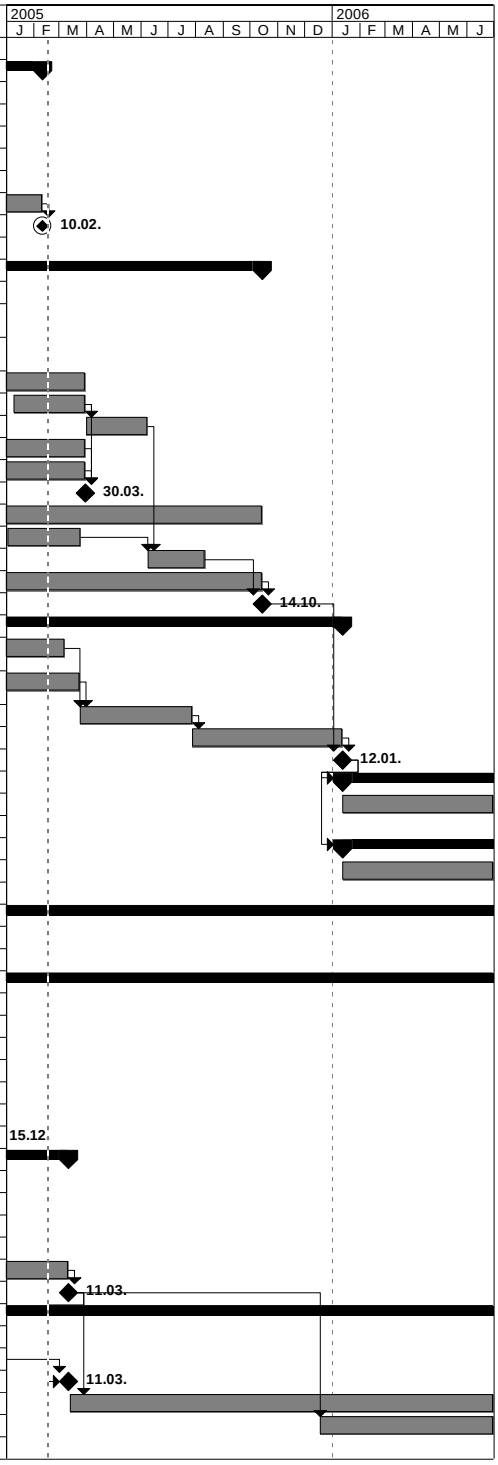


ID	Task Name
31	MS: 2nd ABI topical workshop on Beam Intensity and Lifetime measurements
32	ID: Proceedings of the 2004 ABI topical workshops
33	Contribution to US-LARP activities/events and possible synergy with HHH WP1-WP3
34	Study of tune control after identification of its limiting issues
35	MS: 3rd ABI topical workshop on Tune Control
36	ID: Proceedings of the 3rd ABI topical workshop
37	ID: Interim report on ABI activities and reporting at the general CARE meeting
38	Definition of possible new milestones
39	MS: 4th ABI topical workshop
40	**WP3 Accelerator Physics and Synchrotron Design (APD)**
41	Further development of the APD Web Site with structured information flow
42	ID: Interim report on APD activities and reporting at the general CARE meeting
43	MS: 1st APD topical workshop on Fast Synchrotrons and IR design HHH-2004
44	MS: General APD meeting
45	ID: Proceedings of the 1st APD topical workshop
46	Systematic comparison of alternative synchrotron and IR designs
47	Determination of beam dynamics studies and experiments to validate different options (APD1
48	APD mini-workshop on Crystal Collimation
49	Studies relevant for APD3, APD4 and APD5, contribution to US-LARP events
50	Identification of beam intensity limitations and determination of roadmap for Synchrotron and
51	MS: 2nd APD topical workshop on Fast Synchrotrons and IR design
52	ID: Proceedings of the 2nd APD topical workshop
53	Establish a structured catolog of existing simulation codes for APD1-APD7
54	Collect and document benchmarked codes
55	Creation of a first web based code repository
56	ID: Interim report on APD activities and reporting at the general CARE meeting
57	Definition of possible new milestones
58	Definition of optics design options for IR layout and booster synchrotrons
59	Assessment of impedance budget for booster synchrotrons
60	First structured list of intensity limits for booster synchrotrons and LHC

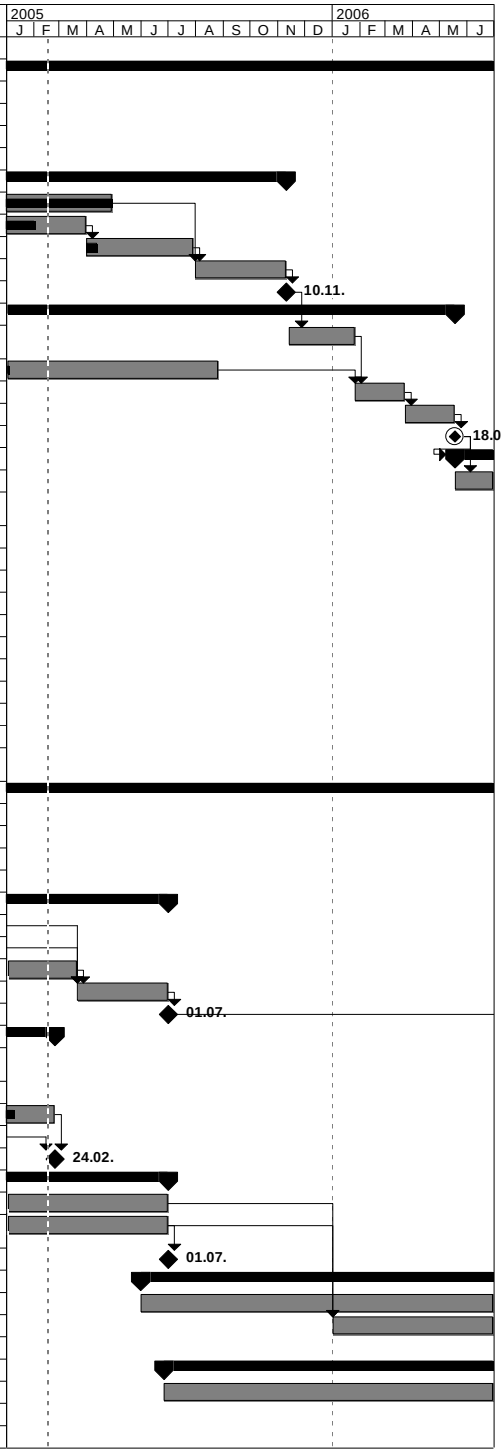


JOINT RESEARCH ACTIVITIES
JRA1: Superconducting Radio Frequency (SRF)

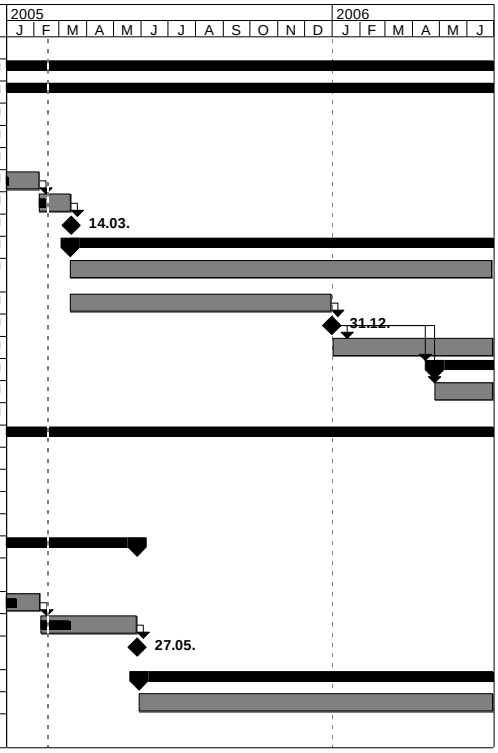
N°	Task Name	Milestones	Main Deliverables	Contractor
2	**WP 2 IMPROVED STANDARD CAVITY FABRICATION**			
2.1	**Reliability Analysis**			**DESY**
2.1.1	Review of data bank: cavity fabrication			**DESY**
2.1.2	Review of data bank :cavity treatment			**DESY**
2.1.3	Review of data bank: cavity VT performance			**DESY**
2.1.4	Review of data bank: string assembly			**DESY**
2.1.5	Review of data bank: string performance			**DESY**
2.1.6	Establish correlations			**DESY**
2.1.7	**Final report on reliability issue**		**Final Report**	**DESY**
2.2	**Improved component design**			**INFN-Mi**
2.2.1	**Documentation retrieving**			**INFN-Mi**
2.2.1.1	Start up meetings			**INFN-Mi**
2.2.1.2	Access and study of Jlab, DESY, LLAN, KEK experience			**INFN-Mi**
2.2.1.3	**Summary report on the status of the ar on ancillaries**	**Summary Report**		**INFN-Mi**
2.2.1.4	Sealing material and shape design			**INFN-Mi**
2.2.1.5	Flange preliminary design			**INFN-Mi**
2.2.1.6	Material and geometric compatibility			**INFN-Mi**
2.2.1.7	Final assembly design			**INFN-Mi**
2.2.1.8	End plate preliminary design			**INFN-Mi**
2.2.1.9	**Report about new design for compone**	**Design Report**		**INFN-Mi**
2.2.1.10	Stiffness optimization			**INFN-Mi**
2.2.1.11	Manufacturing procedure analysis			**INFN-Mi**
2.2.1.12	Final assembly design			**INFN-Mi**
2.2.1.13	Other ancillaries design			**INFN-Mi**
2.2.1.14	**Final Report for new components**	**Report**		**INFN-Mi**
2.2.2	**Review of criticality in welding procedures**			**INFN-Mi**
2.2.2.1	Review of available parameters on vendor welding machine			**INFN-Mi**
2.2.2.2	Definition of prototype requirements for tests			**INFN-Mi**
2.2.2.3	Welding test on specimens			**INFN-Mi**
2.2.2.4	Analysis of the results			**INFN-Mi**
2.2.2.5	**Report about welding parameters**	**Report**		**INFN-Mi**
2.2.3	**Finalize new component design**			**INFN-Mi**
2.2.3.1	Do drawings			**INFN-Mi**
2.2.3.2	**New components design finished**	**Design report**		**INFN-Mi**
2.2.4	**Finalize new cavity design**			**INFN-Mi**
2.2.4.1	Make drawings			**INFN-Mi**
2.2.4.2	**New cavity design finished**	**Design report**		**INFN-Mi**
2.2.5	**Fabrication of new cavity**			**INFN-Mi**
2.2.5.1	Fabrication			**INFN-Mi**
2.2.5.2	New cavity finished		**Cavity Prototyp**	**INFN-Mi**
2.3	**EB welding**			**DESY**
2.3.1	**Design tooling**			**DESY**
2.3.1.1	Tools for flange welding			**DESY**
2.3.1.2	Tools for pipe welding			**DESY**
2.3.1.3	Tools for stiffening rings			**DESY**
2.3.1.4	Tools for single cell welding			**DESY**
2.3.1.5	Tools for 9-cells			**DESY**
2.3.1.6	**Tools design finished**	**Design report**		**DESY**
2.3.2	**Tools production**			**DESY**
2.3.2.1	Tools for flange welding			**DESY**
2.3.2.2	Tools for pipe welding			**DESY**
2.3.2.3	Tools for stiffening rings			**DESY**
2.3.2.4	Tools for single cell welding			**DESY**
2.3.2.5	Tools for 9-cells			**DESY**
2.3.2.6	**Tools fabrication finished**	**Tools Ready**		**DESY**
2.3.3	**Welding**			**DESY**
2.3.3.1	Commissioning welding machine			**DESY**
2.3.3.2	Test welding			**DESY**
2.3.3.3	**Start production welding of component**	**Commissioning**		**DESY**
2.3.3.4	Single cell welding			**DESY**
2.3.3.5	Multicell welding			**DESY**
2.3.3.6	**Welding of prototypes of components f**		**Prototypes**	**DESY**



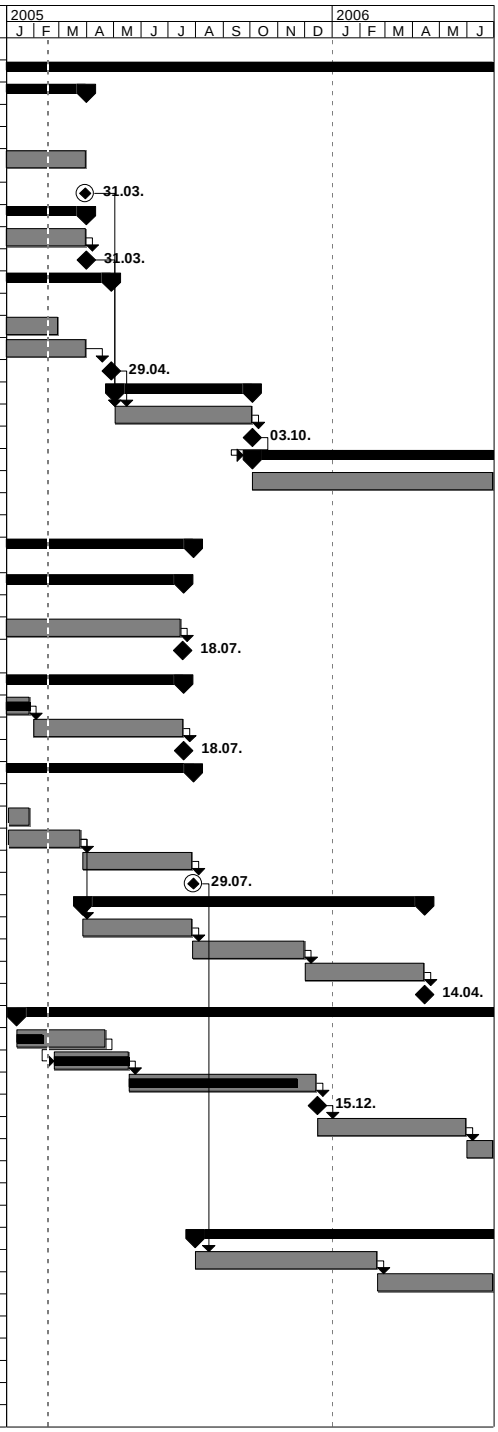
N°	Task Name	Milestones	Main Deliverables	Contractor
3	**WP3 SEAMLESS CAVITY PRODUCTION**			
3.1	**Seamless by spinning**			**INFN-LNL**
3.1.1	**Design spinning machine**			**INFN-LNL**
3.1.1.1	Drawings of the matrices			**INFN-LNL**
3.1.1.2	Drawings of the support system			**INFN-LNL**
3.1.1.3	**Drawings of spinning machine finished**	**Design report**		**INFN-LNL**
3.1.2	**Fabrication of spinning machine**			**INFN-LNL**
3.1.2.1	Fabrication of machine parts			**INFN-LNL**
3.1.2.2	Software for the machine			**INFN-LNL**
3.1.2.3	Assembly of machine			**INFN-LNL**
3.1.2.4	Commissioning of the machine			**INFN-LNL**
3.1.2.5	**Spinning machine ready**	**Commissioning**	**Machine ready**	**INFN-LNL**
3.1.3	**Evaluation of spinning parameters**			**INFN-LNL**
3.1.3.1	Drawings of the support system and turning mechanism			**INFN-LNL**
3.1.3.2	Drawings of the necking mechanism			**INFN-LNL**
3.1.3.3	Fabrication of the tube necking machine			**INFN-LNL**
3.1.3.4	Commissioning of the machine			**INFN-LNL**
3.1.3.5	**Spinning parameters defined**		**Design Report**	**INFN-LNL**
3.1.4	**Spinning of 1-celll cavities**			**INFN-LNL**
3.1.4.1	Material and fabrication of bulk Nb test tubes			**INFN-LNL**
3.1.4.2	Material and fabrication of bimetallic NbCu test tubes			**INFN-LNL**
3.1.4.3	**1-cell spinning parameters defined**		**Design Report**	**INFN-LNL**
3.1.5	**Extension of spinning apparatus to multicel**			**INFN-LNL**
3.1.5.1	Computer simulation of the necking			**INFN-LNL**
3.1.5.2	**Start of Multi-cell spinning**	**Start spinning**		**INFN-LNL**
3.1.6	**Spinning of multi-cell cavities cavities**			**INFN-LNL**
3.1.6.1	Computer simulation of the hydro forming			**INFN-LNL**
3.1.6.2	Hydro forming of bulk Nb 9-cell cavities			**INFN-LNL**
3.1.6.3	**Parameters of multi-cell spinning defin**	**Design report**		**INFN-LNL**
3.1.7	**Series production of multi-cell cavities**			**INFN-LNL**
3.1.7.1	Spinning			**INFN-LNL**
3.1.7.2	**Multi-cell cavities finished**		**Final report, Cavity**	**INFN-LNL**
3.2	**Seamless by hydroforming**			**DESY**
3.2.1	**Design hydro forming machine**			**DESY**
3.2.1.1	Drawings of the matrices			**DESY**
3.2.1.2	Drawings of the support system			**DESY**
3.2.1.3	**Drawings matrix & support finished**	**Design report**		**DESY**
3.2.2	**Construction of hydro forming machine**			**DESY**
3.2.2.1	Hydraulic for machine			**DESY**
3.2.2.2	Software for the machine			**DESY**
3.2.2.3	Machine fabrication			**DESY**
3.2.2.4	Commissioning of the machine			**DESY**
3.2.2.5	**Hydro forming machine ready**	**Commissioning**		**DESY**
3.2.3	**Construction of tube necking machine**			**DESY**
3.2.3.1	Drawings of the support system and turning mechanism			**DESY**
3.2.3.2	Drawings of the necking mechanism			**DESY**
3.2.3.3	Fabrication of the tube necking machine			**DESY**
3.2.3.4	Software for the tube necking machine			**DESY**
3.2.3.5	**Construction tube necking machine fini**	**Design report**		**DESY**
3.2.4	**Development of seamless tubes for 9-cell c**			**DESY**
3.2.4.1	Material and fabrication of bulk Nb test tubes			**DESY**
3.2.4.2	Material and fabrication of bimetallic NbCu test tubes			**DESY**
3.2.4.3	**Seamless tubes ready**	**Design report**		
3.2.5	**Development of tube necking**			**DESY**
3.2.5.1	Computer simulation of the necking			**DESY**
3.2.5.2	Experiments on tube necking at iris			**DESY**
3.2.5.3	**Tube necking machine operational**	**Commissioning**		**DESY**
3.2.6	**Hydro forming of seamless cavities**			**DESY**
3.2.6.1	Computer simulation of the hydro forming			**DESY**
3.2.6.2	Hydro forming of bulk Nb 9-cell cavities			**DESY**
3.2.6.3	**Hydro formed 9-cell cavities ready**		**Cavity Prototyp**	**DESY**



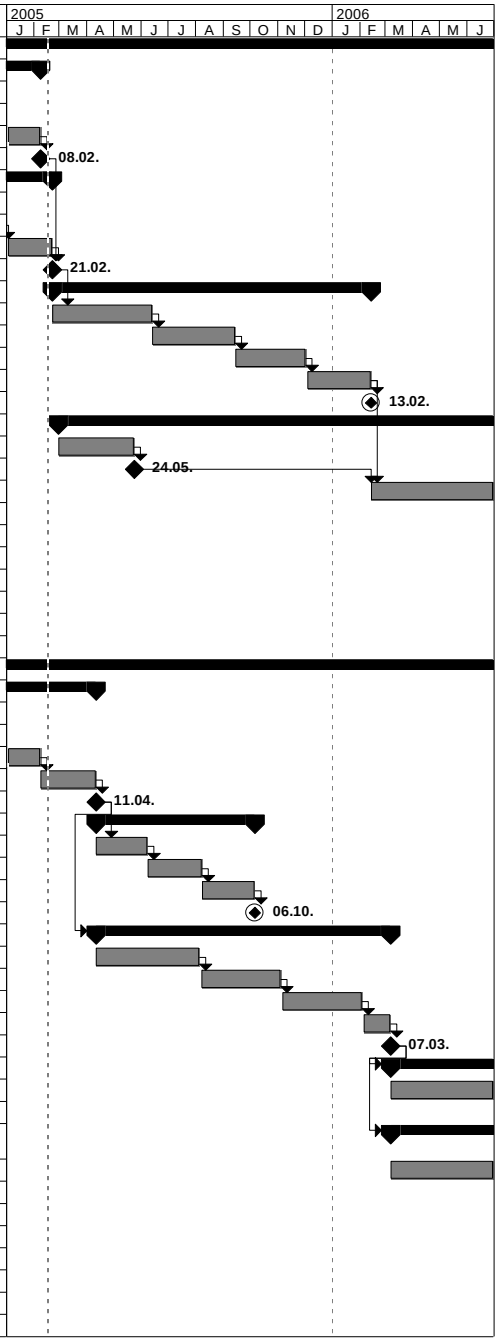
N°	Task Name	Milestones	Main Deliverables	Contractor
4	**WP4 THIN FILM CAVITY PRODUCTION**			
4.1	**Linear-arc cathode coating**			**IPJ**
4.1.1	**Installation & commissioning of coating app**			**IPJ**
4.1.1.1	Modification of a prototype facility for single c			**IPJ**
4.1.1.2	Optimization of a triggering system			**IPJ**
4.1.1.3	**Prototype facility ready**	**Commissioning**		**IPJ**
4.1.1.4	Study of arc current reduction and stabilizatio			**IPJ**
4.1.1.5	Optimization of pow ering system			**IPJ**
4.1.1.6	**Coating apparatus operational**	**Apparatus ready**		**IPJ**
4.1.1.7	**Coating single cells**			**IPJ**
4.1.1.7.1	Coating of single cells w ithout micro droplet filtering			**IPJ**
4.1.1.7.2	Design and construction of a micro drop			**IPJ**
4.1.1.7.3	**Droplet filter ready**	**Hardware ready**		**IPJ**
4.1.1.7.4	Coating of single cell w ith micro droplet f			**IPJ**
4.1.2	**Coating multi-cell**			**IPJ**
4.1.2.1	Design and commissioning			**IPJ**
4.1.2.2	First multicell coating			**IPJ**
4.2	**Planar-arc cathode coating**			**INFN-Ro2**
4.2.1	**Modification of a planar-arc & trigger system**			**INFN-Ro2**
4.2.1.1	Modification			**INFN-Ro2**
4.2.1.2	Optimization of the laser triggering system			**INFN-Ro2**
4.2.1.3	**Planar arc system fully tested**	**Status Report**		**INFN-Ro2**
4.2.2	**Routine Operation of planar arc system**			**INFN-Ro2**
4.2.2.1	Characterization of samples coated at different conditions			**INFN-Ro2**
4.2.2.2	Characterization of Nb-coated sapphire			**INFN-Ro2**
4.2.2.3	Characterization of Nb-coated copper sa			**INFN-Ro2**
4.2.2.4	**Summary report on quality of planar arc coating**	**Status Report**		**INFN-Ro2**
4.2.3	**Studies of other HTC superconducting coati**			**INFN-Ro2**
4.2.3.1	Study of superconducting properties			**INFN-Ro2**
4.2.3.2	**Report on quality of superconducting properties**		**Final Report**	**INFN-Ro2**



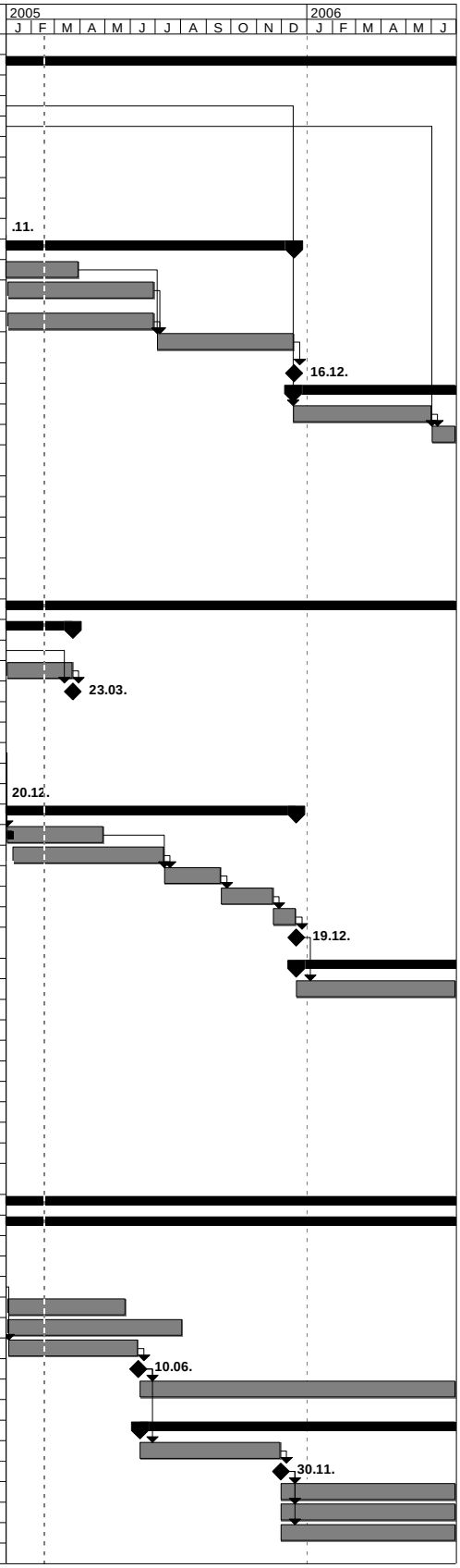
N°	Task Name	Milestones	Main Deliverables	Contractor
5	**WP5 SURFACE PREPARATION**			
5.1	**EP on single cells**			**CEA**
5.1.1	**EP on samples**			**CEA**
5.1.1.1	Establishing method of surface characterizat			**CEA**
5.1.1.2	**Surface characterization fixed**	**Design Report**		**CEA**
5.1.1.3	Series of EP with samples for surface investigations			**CEA**
5.1.1.4	**Best EP parameters**		**Final Report**	**CEA**
5.1.2	**Single cell cavities**			**CEA**
5.1.2.1	Order Nb and fabricate 3 cavities			**CEA**
5.1.2.2	**3 cavities fabricated**	**Cavities ready**		**CEA**
5.1.3	**Build EP chemistry for single cells**			**CEA**
5.1.3.1	Design of EP set-up			**CEA**
5.1.3.2	Fabrication of EP set-up			**CEA**
5.1.3.3	Commissioning of EP set-up			**CEA**
5.1.3.4	**First operation of EP set-up**	**Commissioning**		**CEA**
5.1.4	**Operation of single cell EP**			**CEA**
5.1.4.1	Continous single cell operation			**CEA**
5.1.4.2	**Define working parameters for single c**	**Design Report**		**CEA**
5.1.5	**Continuous operation, search for best para**			**CEA**
5.1.5.1	Parametrising EP procedure			**CEA**
5.1.5.2	**EP parameters fixed**		**Final report**	**CEA**
5.2	**EP on multi-cells**			**DESY**
5.2.1	**Transfer of parameters from 1 cell to multi cell equipment**			**DESY**
5.2.1.1	**Finish EP setup nine-cells at DESY**			**DESY**
5.2.1.1.1	Improved gas cleaning system			**DESY**
5.2.1.1.2	Design for hot water rinsing			**DESY**
5.2.1.1.3	**Proof-of-Principle experiment hot water rinsing**	**Status Report**		**DESY**
5.2.1.2	**Optimize electrode shape**			**DESY**
5.2.1.2.1	Develop computer model / Evaluate softw			**DESY**
5.2.1.2.2	Design improved electrode			**DESY**
5.2.1.2.3	**Electrode design fixed**	**Design report**		**DESY**
5.2.1.3	**Fix process parameters/ Quality control**			**DESY**
5.2.1.3.1	Setup chemical lab			**DESY**
5.2.1.3.2	Bath aging			**DESY**
5.2.1.3.3	Bath mixture			**DESY**
5.2.1.3.4	Alternative (salt) mixtures			**DESY**
5.2.1.3.5	**Process parameters fixed**		**Final report**	**DESY**
5.2.2	**Laser roughness**			**DESY**
5.2.2.1	Evaluate existing systems			**DESY**
5.2.2.2	Specify laser system			**DESY**
5.2.2.3	Built laser system			**DESY**
5.2.2.4	**Roughness measurement finished**	**Equipment ready**		**DESY**
5.2.3	**Oxipolishing as final chemical cleaning**			**DESY**
5.2.3.1	Laboratory studies			**DESY**
5.2.3.2	Design of OP system			**DESY**
5.2.3.3	Setup one-cell system			**DESY**
5.2.3.4	**Proof-of-Principle experiment Oxipolish**	**Status Report**		**DESY**
5.2.3.5	Design OP for nine-cells			**DESY**
5.2.3.6	Build OP for 9-cells			**DESY**
5.2.3.7	**OP for 9-cells ready**	**Commissioning**		**DESY**
5.2.3.8	Study op with 9-cell cavities			**DESY**
5.2.3.9	Evaluate experiments		**Status Report**	**DESY**
5.2.4	**Transfer Electropolishing technology to ind**			**DESY**
5.2.4.1	Qualify industry with one-cells			**DESY**
5.2.4.2	Industrial design study on setup for multi-cel			**DESY**
5.2.4.3	**Report on industrial design**	**Report**		**DESY**
5.2.4.4	Fabricate EP multi-cell industrial prototype			**DESY**
5.2.4.5	Commission EP multi-cell industrial prototype			**DESY**
5.2.4.6	**EP multi-cell industrial prototype ready**	**Commissioning**		**DESY**
5.2.4.7	Operate EP multi-cell industrial prototype			**DESY**
5.2.4.8	**Final report on industrial EP**		**Final report**	**DESY**



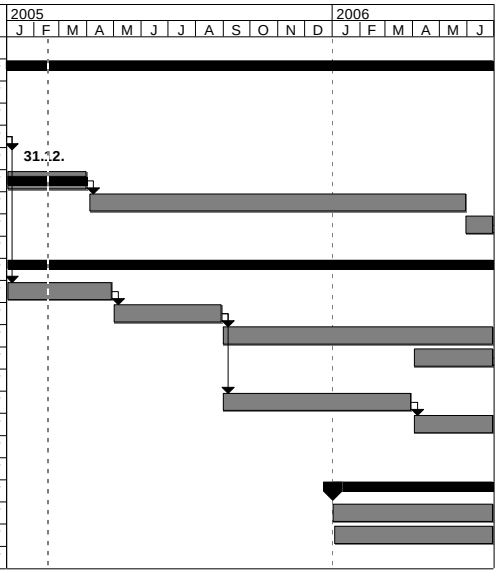
N°	Task Name	Milestones	Main Deliverables	Contractor
5.3	**Automated EP (AEP)**			**INFN-LNL**
5.3.1	**Prototype EP installation**			**INFN-LNL**
5.3.1.1	Design installation			**INFN-LNL**
5.3.1.2	Fabricate/ order components			**INFN-LNL**
5.3.1.3	Assemble EP installation			**INFN-LNL**
5.3.1.4	**First operation of automated EP**	**Commissioning**		**INFN-LNL**
5.3.2	**EP computer control**			**INFN-LNL**
5.3.2.1	Design control architecture			**INFN-LNL**
5.3.2.2	Developed software			**INFN-LNL**
5.3.2.3	Test of software			**INFN-LNL**
5.3.2.4	**Software ready**	**Status Report**		**INFN-LNL**
5.3.3	**Operation of AEP prototype**			**INFN-LNL**
5.3.3.1	Correlate surface finish/ conductance			**INFN-LNL**
5.3.3.2	Determine optimum conductance			**INFN-LNL**
5.3.3.3	Optimize automated operation			**INFN-LNL**
5.3.3.4	Design report on AEP			**INFN-LNL**
5.3.3.5	**Automated EP is defined**		**Final Report**	**INFN-LNL**
5.3.4	**Alternative electrolytes**			**INFN-LNL**
5.3.4.1	Review of EP chemistry			**INFN-LNL**
5.3.4.2	**Proposal for alternative electrolytes**	**Report**		**INFN-LNL**
5.3.4.3	Experiments with alternative electrolytes			**INFN-LNL**
5.3.4.4	**Conclude experimental results**	**Status Report**		**INFN-LNL**
5.3.5	**Define best AEP**			**INFN-LNL**
5.3.5.1	Compare standard/new electrolyte method			**INFN-LNL**
5.3.5.2	Modify AEP installation for best electrolyte			**INFN-LNL**
5.3.5.3	Operate modified AEP			**INFN-LNL**
5.3.5.4	Design report on best AEP			**INFN-LNL**
5.3.5.5	**Conclude on best electrolyte**		**Final Report**	**INFN-LNL**
5.4	**Dry ice cleaning**			**DESY**
5.4.1	**Installation of full system for 1-3 cell cavities**			**DESY**
5.4.1.1	Installation of CO_2 piping			**DESY**
5.4.1.2	Installation of motion system			**DESY**
5.4.1.3	Installation of control system			**DESY**
5.4.1.4	Commissioning			**DESY**
5.4.1.5	**Installation finished**	**Commissioning**		**DESY**
5.4.2	**Optimization of cleaning parameters**			**DESY**
5.4.2.1	Sample cleaning			**DESY**
5.4.2.2	1-cell cavity cleaning			**DESY**
5.4.2.3	Fix best cleaning parameters			**DESY**
5.4.2.4	**Cleaning parameters fixed**		**Final Report**	**DESY**
5.4.3	**VT 9-cell cleaning apparatus**			**DESY**
5.4.3.1	Design 9-cell apparatus VT			**DESY**
5.4.3.2	Fabricated 9-cell apparatus			**DESY**
5.4.3.3	Installation of 9-cell apparatus			**DESY**
5.4.3.4	Commissioning of 9-cell apparatus			**DESY**
5.4.3.5	**VT Cleaning Installation finished**	**Commissioning**		**DESY**
5.4.4	**VT Cleaning of 9-cell cavities**			**DESY**
5.4.4.1	Continuous cleaning			**DESY**
5.4.4.2	**Evaluation of experimental results**		**Final Report**	**DESY**
5.4.5	**Design & construction of H9-cell cleaning apparatus**			**DESY**
5.4.5.1	Design 9-cell apparatus VT			**DESY**
5.4.5.2	Fabricated 9-cell apparatus			**DESY**
5.4.5.3	Installation of 9-cell apparatus			**DESY**
5.4.5.4	Commissioning of 9-cell apparatus			**DESY**
5.4.5.5	**Start H9-cell cleaning**	**Commissionning**		**DESY**
5.4.6	**Cleaning of horizontal nine-cell cavity**			**DESY**
5.4.6.1	Continuous cleaning			**DESY**
5.4.6.2	**Evaluation of experimental results**		**Final Report**	**DESY**



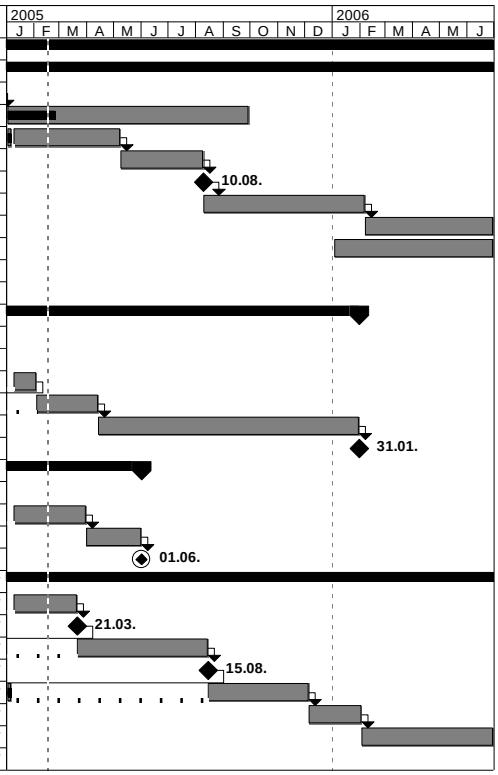
N°	Task Name	Milestones	Main Deliverables	Contractor
6	**WP6 MATERIAL ANALYSIS**			**DESY**
6.1	**SQUID scanning**			**DESY**
6.1.1	**Produce calibration defects**			**DESY**
6.1.1.1	Production of surface defects			**DESY**
6.1.1.2	Production of bulk defects			**DESY**
6.1.1.3	**Calibration defects finished**	**Status Report**		**DESY**
6.1.2	**Design components of Squid scanner**			**DESY**
6.1.2.1	Design of the scanning table and support			**DESY**
6.1.2.2	Design of the SQUID cooling system			**DESY**
6.1.2.3	**Design Scanner finished**	**Design report**		**DESY**
6.1.3	**Construction of scanning apparatus**			**DESY**
6.1.3.1	Fabrication of the SQUID			**DESY**
6.1.3.2	Fabrication and purchase of components for SQUID apparatus			**DESY**
6.1.3.3	Software for the SQUID scanner			**DESY**
6.1.3.4	Commissioning and calibration of scanning apparatus			**DESY**
6.1.3.5	**Scanning apparatus operational**	**Commissioning**		**DESY**
6.1.4	**Scanning of sheets with artificial defects**			**DESY**
6.1.4.1	Scanning of sheets with artificial surface def			**DESY**
6.1.4.2	Scanning of sheets with artificial bulk defects			**DESY**
6.1.4.3	Development of algorithm for material defects classification			**DESY**
6.1.4.4	**Classification of defects finished**	**Status Report**		**DESY**
6.1.5	**Scanning of production sheets**			**DESY**
6.1.5.1	Scanning of sheets of different producers			**DESY**
6.1.5.2	Identification of defects by (EDX, SURFA etc			**DESY**
6.1.5.3	Conclusive comparison with eddy current da			**DESY**
6.1.5.4	**Final report on SQUID scanning**		**Final Report**	**DESY**
6.2	**Flux gate magnetometry**			**INFN-LNL**
6.2.1	**Produce calibration defects**			**INFN-LNL**
6.2.1.1	Production of surface defects			**INFN-LNL**
6.2.1.2	Production of bulk defects			**INFN-LNL**
6.2.1.3	**Calibration defects finished**	**Status Report**		**INFN-LNL**
6.2.2	**Design components of flux gate head**			**INFN-LNL**
6.2.2.1	Design electronics			**INFN-LNL**
6.2.2.2	Design of flux gate head			**INFN-LNL**
6.2.2.3	Design of operations software			**INFN-LNL**
6.2.2.4	**Design flux gate head finished**	**Design report**		**INFN-LNL**
6.2.3	**Fabrication of flux gate detector**			**INFN-LNL**
6.2.3.1	Fabrication of flux gate head			**INFN-LNL**
6.2.3.2	Fabrication of mechanics			**INFN-LNL**
6.2.3.3	Implementation of software			**INFN-LNL**
6.2.3.4	Commissioning of flux gate detector			**INFN-LNL**
6.2.3.5	Calibration of flux gate detector			**INFN-LNL**
6.2.3.6	**Flux gate detector operational**	**Design report, start operation**		**INFN-LNL**
6.2.4	**Commissioning of flux gate detector**			**INFN-LNL**
6.2.4.1	Operational tets tests			**INFN-LNL**
6.2.4.2	Evaluation of test results			**INFN-LNL**
6.2.4.3	**Flux gate scanner commissioned**	**Status Report**		**INFN-LNL**
6.2.5	**Operation of flux gate detector**			**INFN-LNL**
6.2.5.1	Regular operation			**INFN-LNL**
6.2.5.2	Report of operation			**INFN-LNL**
6.2.5.3	**Conclusion of flux gate scanning operat**	**Status Report**		**INFN-LNL**
6.2.6	**Comparison with SQUID scanner**			**INFN-LNL**
6.2.6.1	Compare measurements			**INFN-LNL**
6.2.6.2	**Conclude SQUID scanner vs. flux gate detector**		**Final Report**	**INFN-LNL**
6.3	**DC field emission studies of Nb samples**			**DESY**
6.3.1	**Quality control scans**			**DESY**
6.3.1.1	Modification of Scanning apparatus			**DESY**
6.3.1.2	Calibration of Scanning apparatus			**DESY**
6.3.1.3	**Start scanning activity**	**Start Operation**		**DESY**
6.3.1.4	BCP and HPR samples			**DESY**
6.3.1.5	EP and HPR samples			**DESY**
6.3.1.6	BCP/EP and DIC samples			**DESY**
6.3.1.7	**First report on BCP/EP and DIC surface**	**Interim Report**		**DESY**
6.3.1.8	Continue QA scanning			**DESY**
6.3.1.9	**Evaluation of scanning results**		**Final Report**	**DESY**
6.3.2	**Detailed measurements on strong emitters**			**DESY**
6.3.2.1	Calibrate apparatus for high current			**DESY**
6.3.2.2	**Start strong emitter evaluation**	**Start Measuremen**		**DESY**
6.3.2.3	I/V curves and current limits			**DESY**
6.3.2.4	SEM and AES			**DESY**
6.3.2.5	Influence of heat treatment and ion impact			**DESY**
6.3.2.6	**Evaluate strong emitter investigations**		**Final Report**	**DESY**



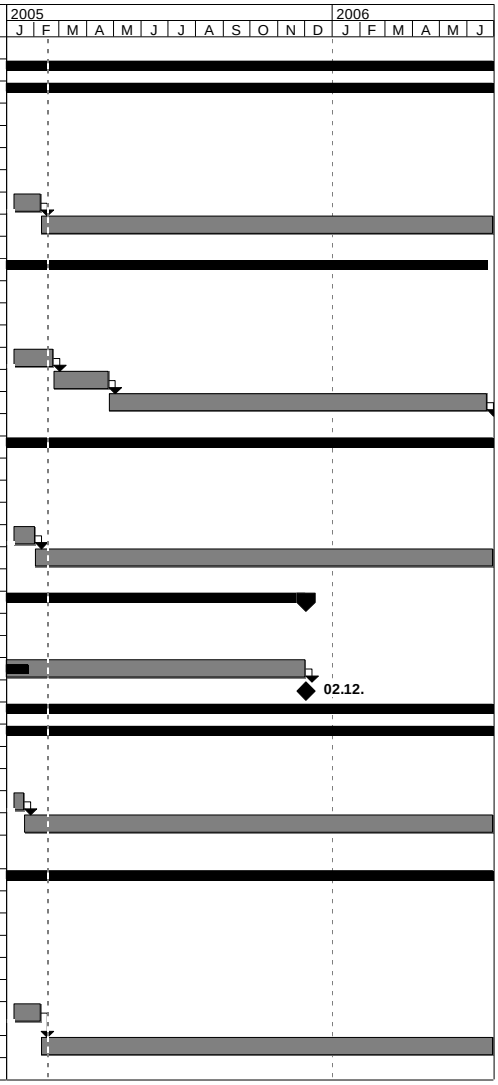
N°	Task Name	Milestones	Main Deliverables	Contractor
7	**WP7 COUPLERS**			
7.1	**New Prototype Coupler**			**CNRS-Orsay**
7.1.1	RF Simulations of Coupler			**CNRS-Orsay**
7.1.2	Report on Simulation			**CNRS-Orsay**
7.1.3	Detailed Engineering Drawings			**CNRS-Orsay**
7.1.4	Engineering complete			**CNRS-Orsay**
7.1.5	Call for tenders			**CNRS-Orsay**
7.1.6	Prototype Fabrication in Industry			**CNRS-Orsay**
7.1.7	Low Power tests			**CNRS-Orsay**
7.1.8	**Ready for High Power Tests**	**Coupler Prototype**		**CNRS-Orsay**
7.2	**Fabrication of TiN Coating System**			**CNRS-Orsay**
7.2.1	Mechanical design of vacuum chamber			**CNRS-Orsay**
7.2.2	Fabrication drawings			**CNRS-Orsay**
7.2.3	Construction of vacuum chamber			**CNRS-Orsay**
7.2.4	Define vacuum needs			**CNRS-Orsay**
7.2.5	Appropriation of vacuum equipment			**CNRS-Orsay**
7.2.6	Design of electronic circuitry			**CNRS-Orsay**
7.2.7	Fabrication of electronics in industry			**CNRS-Orsay**
7.2.8	Installation and Test at Orsay			**CNRS-Orsay**
7.2.9	**First Window Coating**	**Commissioning**		**CNRS-Orsay**
7.3	**Conditioning Studies of Proto-type Couplers**			**CNRS-Orsay**
7.3.1	Conditioning of couplers			**CNRS-Orsay**
7.3.2	Evaluate conditioning results			**CNRS-Orsay**
7.3.3	**Final report on conditioning**		**Final report**	**CNRS-Orsay**



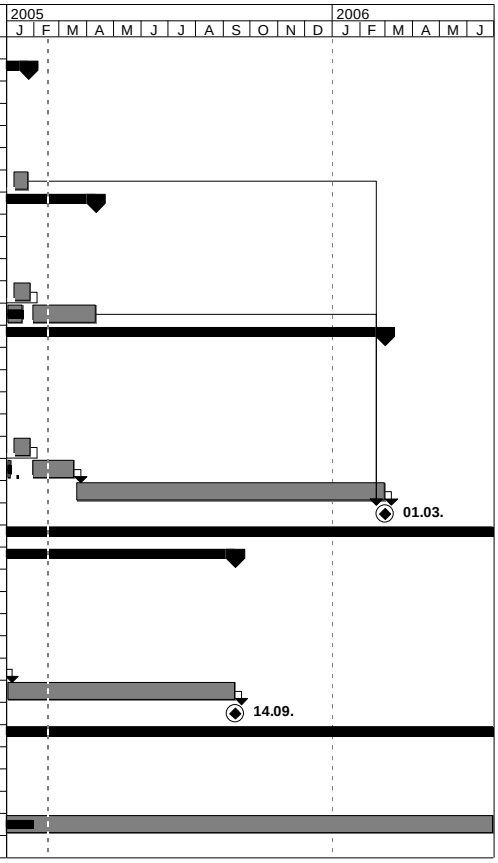
N°	Task Name	Milestones	Main Deliverables	Contractor
8	**WP8 TUNERS**			
8.1	**UMI TUNER**			**INFN-Mi**
8.1.1	Control electronics			**INFN-Mi**
8.1.2	Mechanical tuner design, leverage system/motor			**INFN-Mi**
8.1.3	Integration piezo design			**INFN-Mi**
8.1.4	Choice of transducer/actuator			**INFN-Mi**
8.1.5	**Report UMI tuner**	**Design report**		**INFN-Mi**
8.1.6	Tuner fabrication			**INFN-Mi**
8.1.7	Piezo fabrication and bench tests			**INFN-Mi**
8.1.8	Cavity-tuner-coupler integration			**INFN-Mi**
8.1.9	Pulsed RF tests			**INFN-Mi**
8.1.10	**Evaluation of tuner operation**		**Final report**	**INFN-Mi**
8.2	**Magneto-strictive Tuner**			**TUL**
8.2.1	Complete specification			**TUL**
8.2.2	Conceptual design			**TUL**
8.2.3	Prototype and performance evaluation			**TUL**
8.2.4	Finalize tuner and drive electronics design			**TUL**
8.2.5	Test of tuner			**TUL**
8.2.6	**Report on magneto-strictive Tuner**	**Status report**		**TUL**
8.3	**CEA Tuner**			**CEA**
8.3.1	Design Piezo + Tuning System			**CEA**
8.3.2	Fabrication			**CEA**
8.3.3	Installation RF			**CEA**
8.3.4	**Start of Integrated Experitments**		**Tuner Prototyp**	**CEA**
8.4	**IN2P3 Activity**			**CNRS-Orsay**
8.4.1	Characterize actuators/piezo-sensors at low temp			**CNRS-Orsay**
8.4.2	Report on actuator/piezo sensor			**CNRS-Orsay**
8.4.3	Test radiation hardness of piezo tuners			**CNRS-Orsay**
8.4.4	Report on radiation hardness tests			**CNRS-Orsay**
8.4.5	Integration of pieco and cold tuner			**CNRS-Orsay**
8.4.6	Cryostat tests			**CNRS-Orsay**
8.4.7	Tests with pulsed RF			**CNRS-Orsay**
8.4.8	**Report on IN2P3 tuner activities**		**Final Report**	**CNRS-Orsay**



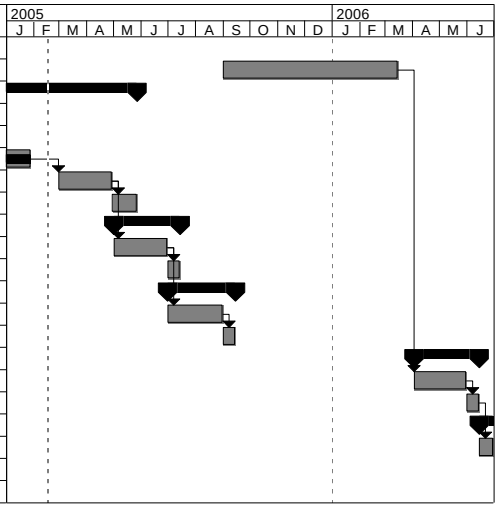
N°	Task Name	Milestones	Main Deliverables	Contractor
9	**WP9 LOW LEVEL RF (LLRF)**			
9.1	**Operability and technical performance**			**DESY**
9.1.1	**Transient detector**			**DESY**
9.1.1.1	Define requirements			**DESY**
9.1.1.2	Electronics design			**DESY**
9.1.1.3	Build prototype and evaluate			**DESY**
9.1.1.4	Final design of detector			**DESY**
9.1.1.5	Installation and commissioning			**DESY**
9.1.1.6	Test with beam			**DESY**
9.1.1.7	**Report on transient detector test**	**Status Report**		**DESY**
9.1.2	**LLRF Automation**			**TUL/DESY**
9.1.2.1	Dialogue with industrial experts			**TUL/DESY**
9.1.2.2	Develop full specification			**TUL/DESY**
9.1.2.3	Implement FMS for subsystems			**TUL/DESY**
9.1.2.4	Test and evaluation			**TUL/DESY**
9.1.2.5	Implement improvements			**TUL/DESY**
9.1.2.6	Evaluation and acceptance by operators			**TUL/DESY**
9.1.2.7	**Report on LLRF atomization design**	**Status Report**		**TUL/DESY**
9.1.3	**Control optimization**			**WUT-ISE/DESY**
9.1.3.1	Specification of system			**WUT-ISE/DESY**
9.1.3.2	Conceptual design of controller			**WUT-ISE/DESY**
9.1.3.3	Performance simulation			**WUT-ISE/DESY**
9.1.3.4	Implementation in DSP hardware			**WUT-ISE/DESY**
9.1.3.5	Implementation and tests on TTF			**WUT-ISE/DESY**
9.1.3.6	**Evaluation of test results**	**Status report**		**WUT-ISE/DESY**
9.1.4	**Exceptional handling routines**			**DESY**
9.1.4.1	Specification			**DESY**
9.1.4.2	Design of exceptional handler			**DESY**
9.1.4.3	Implementation and test on TTF			**DESY**
9.1.4.4	**Report on exceptional handler operatio**	**Status Report**		**DESY**
9.2	**LLRF cost and reliability study**			**TUL**
9.2.1	**Cost and reliability study**			**TUL**
9.2.1.1	Identify cost drivers of present LLRF			**TUL**
9.2.1.2	Develop cost reduction ideas			**TUL**
9.2.1.3	Build prototypes and evaluate			**TUL**
9.2.1.4	Final design of LLRF system			**TUL**
9.2.1.5	**Complete design of LLRF system for reduced cost**	**Status Report**		**TUL**
9.2.2	**Radiation damage study**			**TUL**
9.2.2.1	Identify critical electronics issues			**TUL**
9.2.2.2	Evaluate TESLA radiation			**TUL**
9.2.2.3	Develop tests for components			**TUL**
9.2.2.4	Procure and assembles test set up			**TUL**
9.2.2.5	Data acquisition from radiation tests			**TUL**
9.2.2.6	Analyze results and develop countermeasures			**TUL**
9.2.2.7	Implement countermeasures and verify			**TUL**
9.2.2.8	**Report on radiation damage studies**	**Status Report**		**TUL**



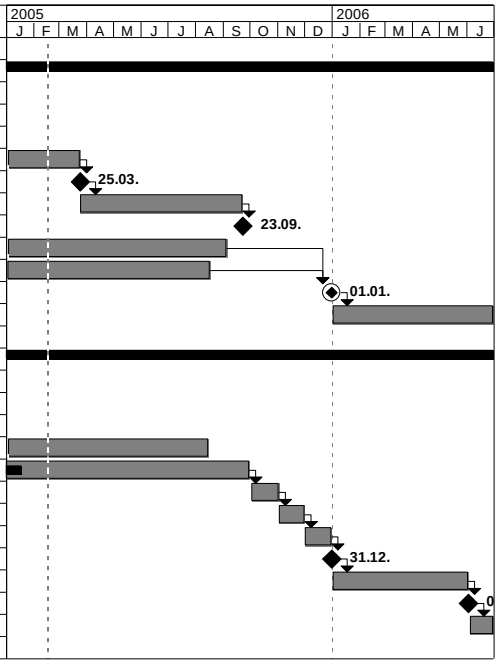
N°	Task Name	Milestones	Main Deliverables	Contractor
9.3	**Hardware**			**WUT-ISE**
9.3.1	**Multichannel downconvertor**			**WUT-ISE**
9.3.1.1	Study and compare technologies			**WUT-ISE**
9.3.1.2	Select optimum PCB design			**WUT-ISE**
9.3.1.3	Build prototype and evaluate			**WUT-ISE**
9.3.1.4	Finalize multichannel downconverter			**WUT-ISE**
9.3.1.5	Determine characteristics			**WUT-ISE**
9.3.2	**Third generation RF control**			**WUT-ISE**
9.3.2.1	Integrate system generator with VHDL			**WUT-ISE**
9.3.2.2	Complete specification			**WUT-ISE**
9.3.2.3	Demonstrate simulator			**WUT-ISE**
9.3.2.4	Final design of RF electronic board			**WUT-ISE**
9.3.2.5	Evaluate performance			**WUT-ISE**
9.3.3	**Stable frequency distribution**			**WUT-ISE**
9.3.3.1	Complete specification			**WUT-ISE**
9.3.3.2	Conceptional design of frequency			**WUT-ISE**
9.3.3.3	Build prototype and evaluate			**WUT-ISE**
9.3.3.4	Final design			**WUT-ISE**
9.3.3.5	Procurement and assembly of subsystems			**WUT-ISE**
9.3.3.6	Installation and commissioning			**WUT-ISE**
9.3.3.7	Performance test with beam			**WUT-ISE**
9.3.3.8	**Report on new LLRF hardware compon**		**Final Report**	**WUT-ISE**
9.4	**Software**			**TUL/WUT-ISE**
9.4.1	**Data management development**			**TUL/WUT-ISE**
9.4.1.1	Specification			**TUL/WUT-ISE**
9.4.1.2	Conceptional design with DOOCS			**TUL/WUT-ISE**
9.4.1.3	Prototype			**TUL/WUT-ISE**
9.4.1.4	User evaluation			**TUL/WUT-ISE**
9.4.1.5	Finalize design			**TUL/WUT-ISE**
9.4.1.6	Implementation in TTF			**TUL/WUT-ISE**
9.4.1.7	**Report on data management developme**		**Final report**	**TUL/WUT-ISE**
9.4.2	**RF gun control**			**PSI/WUT-ISE**
9.4.2.1	Write specification			**PSI/WUT-ISE**
9.4.2.2	Design of controller			**PSI/WUT-ISE**
9.4.2.3	Procurement and assembly			**PSI/WUT-ISE**
9.4.2.4	Installation and test			**PSI/WUT-ISE**
9.4.2.5	**Report on RF gun control tests**		**Final Report**	**PSI/WUT-ISE**



N°	Task Name	Milestones	Main Deliverables	Contractor
10	**WP10 CRYOSTAT INTEGRATION TESTS**			
10.1	Displace CRYHOLAB			**CEA**
10.2	**CRYHOLAB adaption to 9 cell**			**CEA**
10.2.1	Mechanical adaption			**CEA**
10.2.2	Low performance cavity and coupler			**CEA**
10.2.3	Assembly in CRYHOLAB and cryogenic test			**CEA**
10.2.4	High performance coupler - High pow er pulsed te			**CEA**
10.2.5	High performance cavity transfered from DESY			**CEA**
10.3	**Integration tests in cryostat (1st test)**	**Status report**		**CEA**
10.3.1	CEA could tuning system			**CEA**
10.3.2	Evaluate experimental results			**CEA**
10.4	**Integration tests in cryostat (2nd test)**	**Status report**		**CEA**
10.4.1	Magnetostrictive tuner			**CEA**
10.4.2	Evaluate experimental results			**CEA**
10.5	**Integration tests in cryostat (3rd test)**			**CEA**
10.5.1	Piezoelectric tuner			**CEA**
10.5.2	Evaluate experimental results			**CEA**
10.6	**Integration tests in cryostat (4th test)**			**CEA**
10.6.1	New coupler from LAL			**CEA**
10.6.2	Evaluation of results			**CEA**
10.6.3	**Final evaluation**		**Final Report**	**CEA**

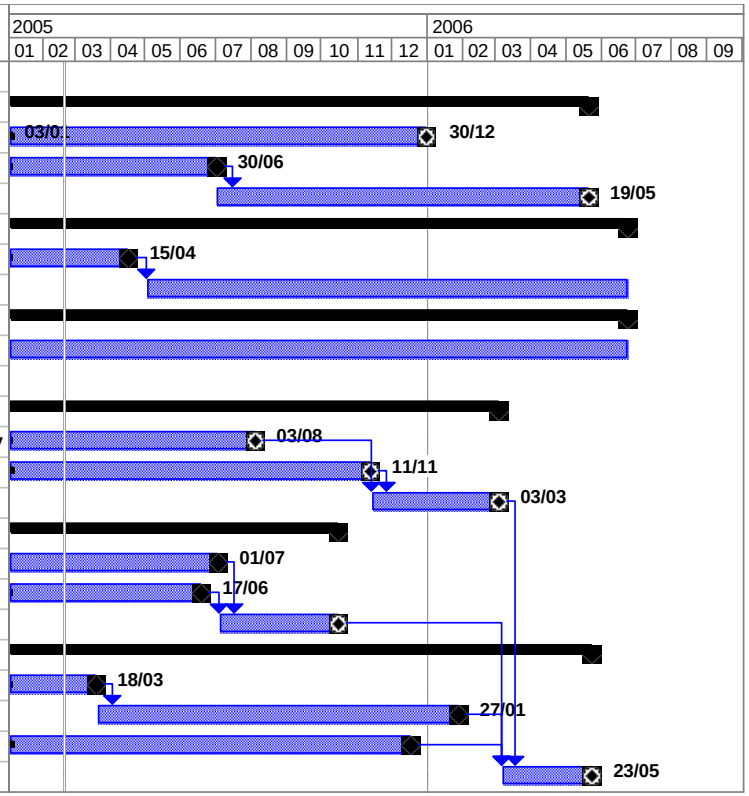


N°	Task Name	Milestones	Main Deliverables	Contractor
11	**WP 11 BEAM DIAGNOSTICS**			**CEA**
11.1	**Beam position monitor**			**CEA**
11.1.1	**Present BPM installed in TTF module**	**Start Measuremen**		**CEA**
11.1.2	Cryogenic measurements on BPM			**CEA**
11.1.3	Beam tests of BPM on TTF			**CEA**
11.1.4	Design of BPM Cavity			**CEA**
11.1.5	Design of BPM cavity ready			**CEA**
11.1.6	Fabrication of BPM Cavity			**CEA**
11.1.7	BMP cavity ready			**CEA**
11.1.8	Development of new hybrid coupler and electronic			**CEA**
11.1.9	Design of Digital Signal Processing			**CEA**
11.1.10	**New BPM ready for Installation**		**BPM Prototype**	**CEA**
11.1.11	Beam Tests w ith new BPM			**CEA**
11.1.12	**Evaluation of BPM operation**		**Final report**	**CEA**
11.2	**Beam Emittance Monitor**			**INFN-LNF**
11.2.1	Slit w idth simulations			**INFN-LNF**
11.2.2	Slit design			**INFN-LNF**
11.2.3	Optics simulations			**INFN-LNF**
11.2.4	Optics appropriations			**INFN-LNF**
11.2.5	System assembly and tests			**INFN-LNF**
11.2.6	Mechanical assembly at TTF			**INFN-LNF**
11.2.7	Optical assembly at TTF			**INFN-LNF**
11.2.8	Integration of controls into TTF			**INFN-LNF**
11.2.9	**Ready for beam test in TTF**	**Start Measuremen**		**INFN-LNF**
11.2.10	Beam tests at TTF			**INFN-LNF**
11.2.11	Evaluate first beam test result	**Status Report**		**INFN-LNF**
11.2.12	Successive measurements			**INFN-LNF**
11.2.13	**Final evaluation**		**Final Report**	**INFN-LNF**

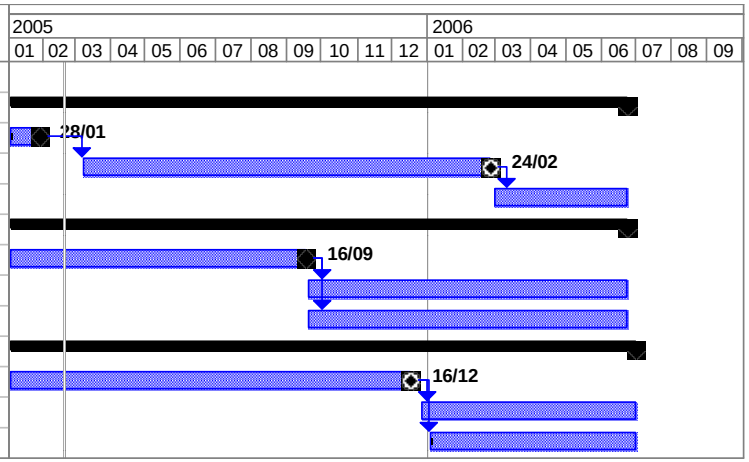


JRA2: Charge Production in Photo-Injector (PHIN)

#	Task Name	Milestones	Main Deliverables
2	**WP2 Charge Production**		
2.1	**High efficiency photocathode for 3 GHz RF gun**		
2.1.1	High efficiency photocathode comparison	Intermediate report	**Final report**
2.1.2	Photocathode preparation equipment construction	Equipment ready	
2.1.3	photocathode 3 GHz high field R&D	Intermediate report	**Photocathode ready**
2.2	**Photocathode for SC cavity**		
2.2.1	Photocathode preparation equipment upgrade	Equipment ready	
2.2.2	Photocathodes test		
2.3	**Laser driven plasma source**		
2.3.1	250 MeV laser driven plasma source R&D		
3	**WP3 Laser**		
3.1	**Laser System**		
3.1.1	High power oscillator construction		**Laser oscillator ready**
3.1.2	Amplifier construction		**Laser amplifier ready**
3.1.3	Oscillator + amplifier test		**Final report**
3.2	**Pulse shaping system**		
3.2.1	Phase mask acquisition and test		**Final report**
3.2.2	Dazzler acquisition and test		**Final report**
3.2.3	Pulse shaping comparison		**Pulse shaper ready**
3.3	**UV generation and Feedbacks**		
3.3.1	UV Harmonic generator R&D	Intermediate report	
3.3.2	UV Harmonic generator test		**UV crystals ready**
3.3.3	Laser-RF Feedback development		**Feedback test**
3.3.4	Overall system assembly and tests		**Laser System ready**

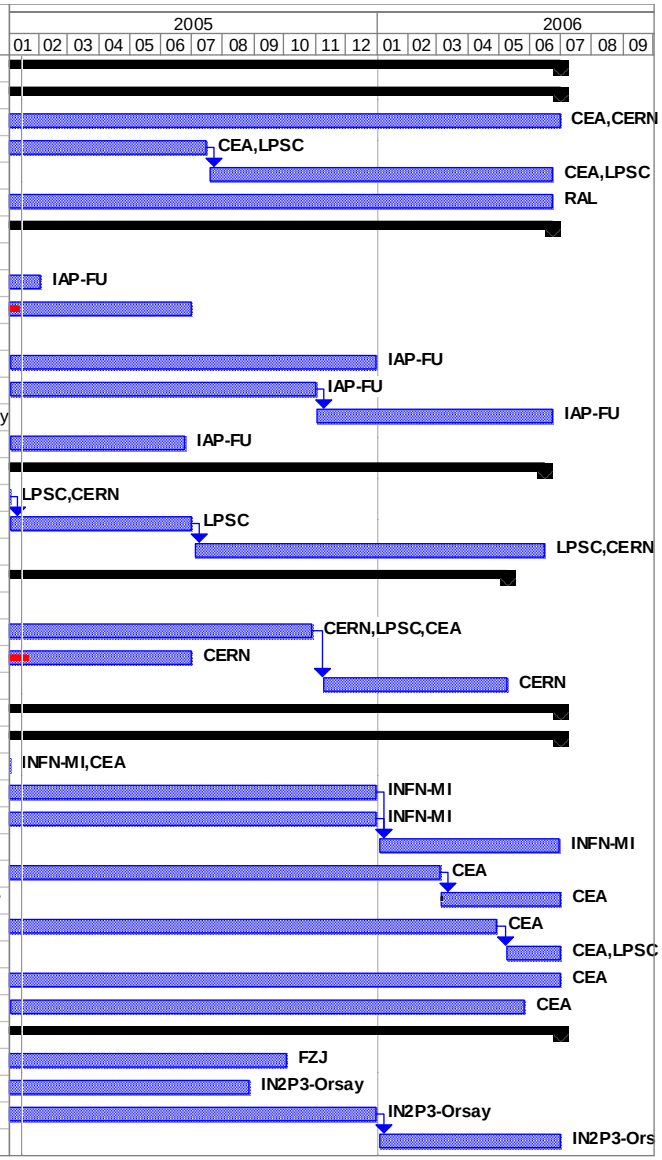


#	Task Name	Milestones	Main Deliverables
4	**WP4 GUN**		
4.1	**SC RF gun**		
4.1.1	SC RF gun design	Design report	
4.1.2	SC RF gun realisation		**SC RF gun ready**
4.1.3	SC RF gun test		
4.2	**3 GHz RF gun**		
4.2.1	Two 3 GHz RF guns construction		
4.2.2	CTF3 3GHz RF gun test at CERN		
4.2.3	NEPAL 3 GHz RF gun test at Orsay		
4.3	**Spectrometer for e- beam**		
4.3.1	1-250 MeV Spectrometer construction		**Spectrometer ready**
4.3.2	1-250 MeV Spectrometer test		
4.3.3	0.1-1Gev Spectrometer development		

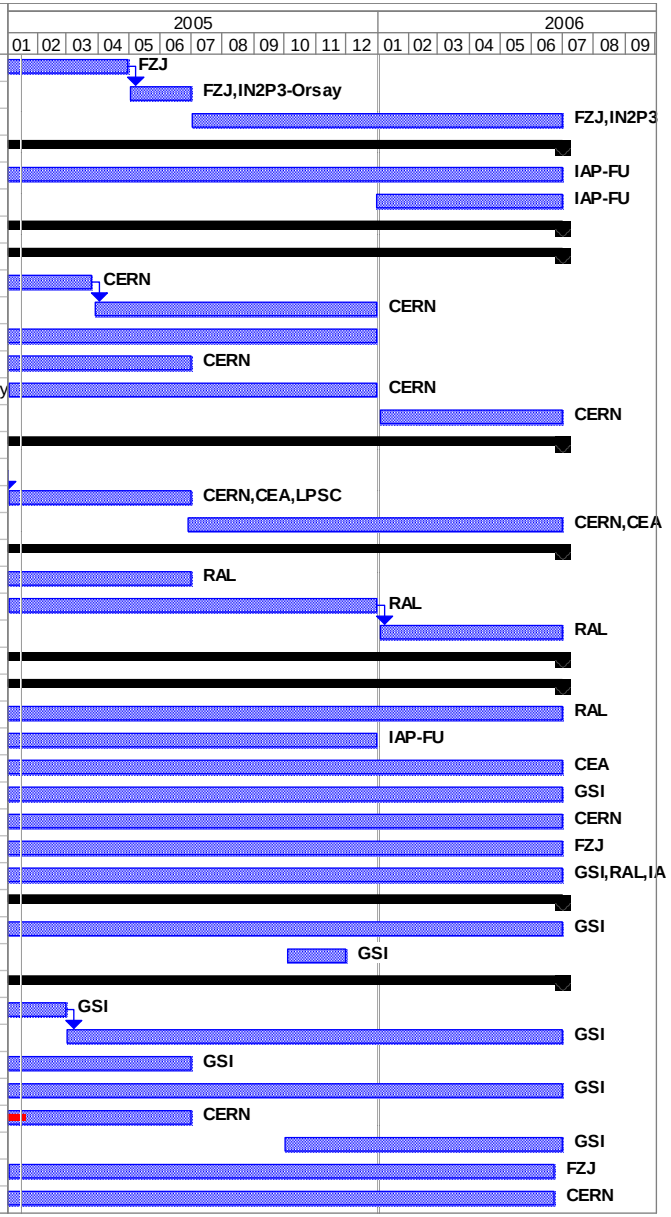


JRA3: High Intensity Proton injector (HIPPI)

ID	Task Name	Milestones	Deliverables
1	**WP2: NORMAL CONDUCTING STRUCTURES**		
2	**2.1 Drift Tube Linac**		
3	2.1.1 DTL design		
5	2.1.3 DTL coupler prototype design		
6	2.1.5 DTL coupler prototype construction and testing		
7	2.1.4 DTL beam dynamics design		
8	**2.2 H-mode Drift Tube Linac**		
9	2.2.1 RF model CH tank1 RF design		
10	2.2.2 RF cold model design & construction		
11	2.2.3 RF model construction		
12	2.2.4 Beam dynamics design CH tank1		
13	2.2.5 CH model cavity tests	Dec-05 Intermediate repor	
14	2.2.6 CH-prototype design		
15	2.2.7 CH-prototype construction		Dec-06: Prototype ready
16	2.2.8 CH-DTL beam dynamics study	Jun-05 Design report	
17	**2.3 Side Coupled Linac**		
18	2.3.1 RF model RF design		
19	2.3.2 RF model mechanical design		
20	2.3.3 RF model construction and testing		
21	**2.4 Cell Coupled Drift Tube Linac**		
22	2.4.1 Pre-prototype construction	Jun-05 Intermediate repor	
23	2.4.2 Pre-prototype high-power RF tests		
24	2.4.3 Contribution to ISTC prototype construction	Jun-06 Prototype ready	
25	2.4.4 Revision of design after prototype testing		Dec-06: Design report
26	**WP3: SUPERCONDUCTING STRUCTURES**		
27	**3.1 ELLIPTICAL CAVITIES**		
28	3.1.1 Cavity A vertical tests		
29	3.1.2 Tuner design		
30	3.1.3 Integration of piezo design		
31	3.1.4 Tuner construction and testing	Dec-05 Intermediate repor	
32	3.1.5 Design cavity B		
33	3.1.6 Construction cavity B		Jun-06: cavity B ready
34	3.1.7 Power coupler design & engineering		
35	3.1.9 RF coupler construction		
36	3.1.8 RF source order & preparation		
37	3.1.10 Modulator preparation for 700 MHz test stand		
38	**3.2 SPOKE CAVITIES**		
40	3.2.2 Evaluation of 760 MHz resonator in vertical cry	Mar-05 Intermediate repor	
41	3.2.3 Evaluation of 352 MHz 2-gap res. in vertical cry	Oct-05 Intermediate report	
42	3.2.4 Design of coupler prototype		
43	3.2.5 Test of coupler prototype		

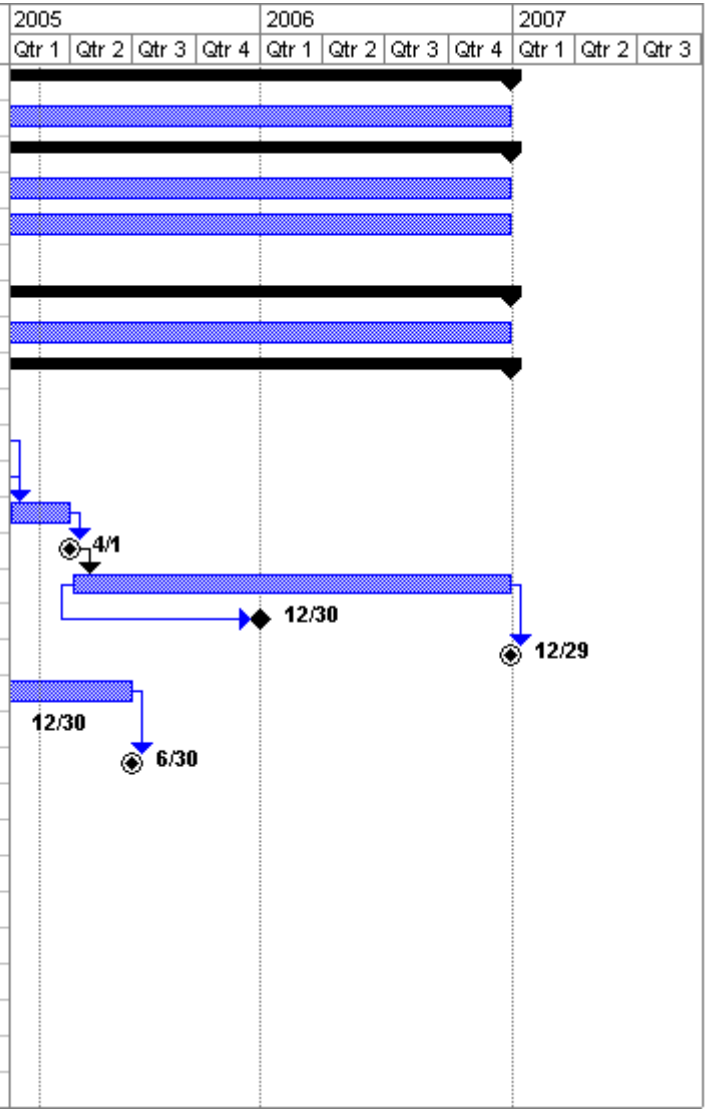


ID	Task Name	Milestones	Deliverables
44	3.2.6 RF design of 352 MHz multi-gap resonator	May-05 Design report	
45	3.2.7 Engineering of resonator, coupler and tuner		
46	3.2.8 Final design of 352 MHz multi-gap prototype		
47	**3.3 CH RESONATOR**		
48	3.3.1 Design of tuning system	Jun-05 Intermediate repor	
49	3.3.2 Construction of CH tuning system		
50	**WP4: CHOPPING**		
51	**4.1 CHOPPER STRUCTURE A**		
52	4.1.1 Pre-prototype construction	Jun-05 Design report	
53	4.1.2 Pre-Prototype testing	Mar-05 Intermediate repor	
54	4.1.3 Driver construction, testing		
55	4.1.4 Full scale prototype design		
56	4.1.5 Full scale prototype construction		Aug-06: Prototype ready
57	4.1.6 Pre-prototype testing w/o beam		
58	**4.2 CHOPPER LINE**		
59	4.2.1 Dump design		
60	4.2.2 Dump construction	Jun-05 Intermediate repor	
61	4.2.3 Beam line assembling		
62	**4.3 CHOPPER STRUCTURE B**		
63	4.3.1 Pre-prototype design and test	Jun-05 Intermediate repor	
64	4.3.2 Prototype design	Jun-06 Design report	
65	4.3.3 Prototype construction		
66	**WP5: BEAM DYNAMICS**		
67	**5.1 Code development**		
68	5.1.1 3D space charge routines dev., testing		
69	5.1.2 LORASR development	Dec-05 Intermediate report	
70	5.1.3 Neutralization and ECR source modelization st		
71	5.1.4 Improvement, modelling high current		
72	5.1.5 Code preparation for 3 MeV test stand	Jun-06 Intermediate repor	
73	5.1.6 Codes preparation for SC linacs		
74	5.1.7 Code comparison and benchmarking		
75	**5.2 Experiment at UNILAC**		
76	5.2.1 Preparation, simulations		
77	5.2.2 First experiment campaign		
78	**5.3 Diagnostics and collimation**		
79	5.3.1 Profile measurement prototype design, construc	Mar-05 Prototype ready	
80	5.3.2 Profile measurement testing		
81	5.3.3 Non-interceptive bunch measurement design		
82	5.3.4 Non-interceptive bunch measurement const. an	Jun-05 Components ready	
83	5.3.5 Halo meas. device design, construction	Jun-05 Prototype ready	Jun-05 Final report
84	5.3.6 On-line transmission control		
85	5.3.7 Beam profile monitor design		
86	5.3.8 Collimators study		

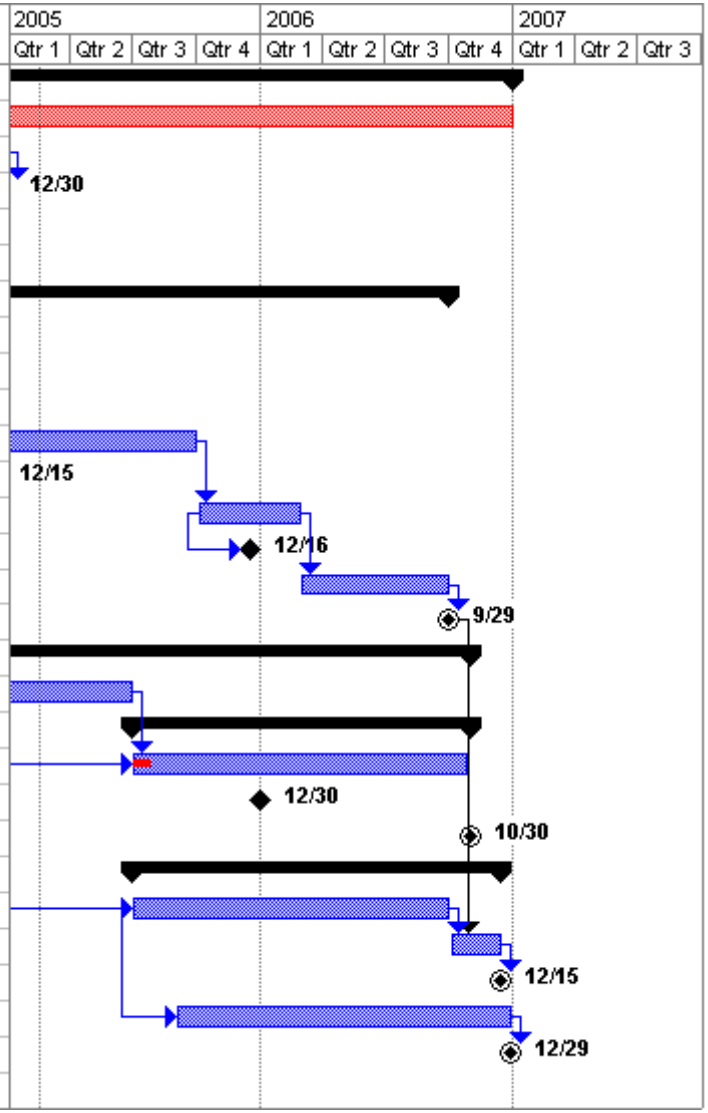


JRA4: New European Dipole (NED)

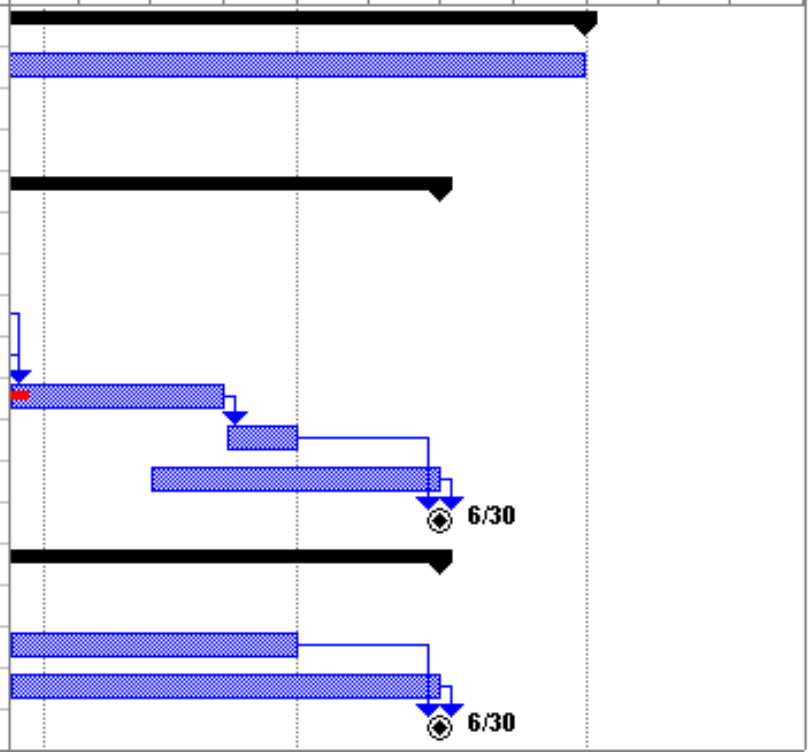
Next European Dipole Joint Research Activity
1 Management and Communication (M&C)
1.1 Activity Coordination
1.2 Meetings
1.2.1 Steering Committee Meetings
1.2.2 External Scientific Advisory Committee Meetings
2 Thermal Studies and Quench Protection (TSQP)
2.1 Work Package Coordination
2.2 Heat Transfer Measurements
2.2.1 Drafting of Test Facility Specifications
2.2.2 Cryostat Design and Fabrication
2.2.3 Cryogenic Module Design and Fabrication
2.2.4 Facility Integration and Qualification
Commisioning of Heat Transfer Facility (deliverable)
2.2.5 Measurements and Analyses
Interim Report on Heat Transfer Measurements (milestone)
Final Report on Heat Transfer Measurements (deliverable)
2.3 Quench Protection Computation
Interim Report on Quench Performance (milestone)
Final Report on Quench Protection (deliverable)



Next European Dipole Joint Research Activity
3 Conductor Development (CD)
3.1 Work Package Coordination
3.2 Cable Definition from Field Computations of a 15 T Dipole Magnet
Design of a 15T Dipole Magnet (deliverable)
3.3 Specifications' Drafting
Specifications on Wire and Cable (deliverable)
3.4 Wire Development
3.4.1 Call for tender
3.4.2 Contracts preparation
Contract Signature
3.4.3 Step 1
Progress Report (milestone)
3.4.4 Step 2
Progress Report (milestone)
3.4.5 Final production
Final Wire Production (deliverable)
3.5 Wire Characterization
3.5.1 Definition of Measuring Procedures
3.5.2 Wire Ic Measurements
3.5.3 Wire Magnetization Measurements
Interim Report on Wire Characterization (milestone)
Final Report on Wire Characterization (deliverable)
3.6 Cable Development
3.6.1 Cabling Trial
3.6.2 Final Production
Final Cable Production (deliverable)
3.7 Cable Characterization
Report on Cable Performance (deliverable)



Next European Dipole Joint Research Activity
4 Insulation Development and Implementation (IDI)
4.1 Work Package Coordination
4.2 Specifications' Drafting
Report Specifications for Conductor Insulation (milestone)
4.3 Implementation Study of Conventional Solution
4.3.1 Litterature Survey
Definition of the Test Programme (milestone)
4.3.2 Tooling Preparation
4.3.3 Compoment Supply
4.3.4 Iterative Tests
4.3.5 Data Analysis
4.3.6 Irradiation Tests
Report on Conventional Insulation (deliverable)
4.4 Implementation Study of Innovative Solution
Definition of the Test Programme
4.4.1 Tape Weaving Trial
4.4.2 Characterization Tests
Report on Innovative Insulation (deliverable)



Financial information for the duration of the detailed implementation plan (per activity)

N0 Management

Management	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA (FC)	427 500	0	1 500	7 500	11 100	447 600	253 350	0	194 250	187 260
	Grand total	**427 500**	**0**	**1 500**	**7 500**	**11 100**	**447 600**	**253 350**	**0**	**194 250**	**187 260**

N1 Electron Linear Accelerator Network (ELAN)

N1	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA (FC)	0	0	0	0	9 000	9 000	9 000	0	0	9 000
3	CNRS(FCF)	0	0	0	0	47 000	47 000	39 167	0	7 833	47 000
6	DESY(AC)	0	0	0	0	71 000	71 000	59 167	0	11 833	71 000
7	FZJ(FC)	0	0	0	0	3 000	3 000	3 000	0	0	3 000
9	FZR(AC)	0	0	0	0	8 629	8 629	7 191	0	1 438	8 629
10	INFN (AC)	0	0	0	0	27 000	27 000	22 500	0	4 500	27 000
11	TEU(FC)	0	0	0	0	6 000	6 000	6 000	0	0	6 000
12	TUL(AC)	0	0	0	0	3 300	3 300	2 750	0	550	3 300
13	IPJ(AC)	0	0	0	0	3 300	3 300	2 750	0	550	3 300
14	WUT-ISE(AC)	0	0	0	0	3 300	3 300	2 750	0	550	3 300
16	CSIC(FC)	0	0	0	0	3 400	3 400	2 833	0	567	3 400
17	CERN(AC)	0	0	0	0	40 000	40 000	33 333	0	6 667	40 000
19	PSI(FC)	0	0	0	0	11 200	11 200	11 200	0	0	0
20	CCLRC(FC)	0	0	0	0	13 500	13 500	13 500	0	0	13 500
21	ICL(AC)	0	0	0	0	6 098	6 098	5 082	0	1 016	6 098
22	UMA(AC)	0	0	0	0	14 600	14 600	12 167	0	2 433	14 600
	Grand total	**0**	**0**	**0**	**0**	**270 327**	**270 327**	**232 390**	**0**	**37 937**	**259 127**

N2 Beam in Europe for Neutrino Experiments (BENE)

N2	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA(FC)	0	0	0	0	14 250	14 250	14 250	0	0	14 250
2	UCLN(AC)	0	0	0	0	2 400	2 400	2 000	0	400	2 400
3	CNRS(FCF)	0	0	0	0	13 788	13 788	11 490	0	2 298	13 788
4	GSI(FC)	0	0	0	0	4 100	4 100	4 100	0	0	4 100
7	FZJ(FC)	0	0	0	0	14 000	14 000	14 000	0	0	14 000
8	TUM(FC)	0	0	0	0	3 100	3 100	2 583	0	517	3 100
10	INFN(AC)	0	0	0	0	27 900	27 900	23 250	0	4 650	27 900
16	CSIC(FC)	0	0	0	0	11 100	11 100	9 250	0	1 850	11 100
17	CERN (AC)	0	0	0	0	24 000	24 000	20 000	0	4 000	24 000
18	UNI-GE(AC)	0	0	0	0	20 000	20 000	16 667	0	3 333	0
19	PSI(FC)	0	0	0	0	0	0	0	0	0	0
20	CCLRC-RAL (FC)	0	0	0	0	13 000	13 000	13 000	0	0	13 000
21	ICL(AC)	0	0	0	0	29 667	29 667	24 723	0	4 945	29 667
	Grand total	**0**	**0**	**0**	**0**	**177 305**	**177 305**	**155 313**	**0**	**21 993**	**157 305**

N3 High-Energy High-Intensity Hadron Beams (HHH)

N3	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA(FC)	0	0	0	0	5 250	5 250	5 250	0	0	5 250
4	GSI(FC)	0	0	0	0	6 700	6 700	6 700	0	0	6 700
6	DESY(AC)	0	0	0	0	6 900	6 900	5 750	0	1 150	6 900
10	INFN(AC)	0	0	0	0	27 900	27 900	23 250	0	4 650	27 900
11	TEU(FC)	0	0	0	0	6 000	6 000	6 000	0	0	6 000
15	WUT(AC)	0	0	0	0	1 500	1 500	1 250	0	250	1 500
16	CSIC(FC)	0	0	0	0	1 200	1 200	1 000	0	200	1 200
17	CERN(AC)	0	46 667	0	0	58 116	104 783	87 319	0	17 464	104 783
19	PSI(FC)	0	0	0	0	0	0	0	0	0	0
20	CCLRC(FC)	0	0	0	0	1 739	1 739	1 739	0	0	1 739
	Grand total	**0**	**46 667**	**0**	**0**	**115 305**	**161 972**	**138 258**	**0**	**23 714**	**161 972**

JRA1 Superconducting Radio-Frequency (SRF)

JRA1	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA(FC)	574 885	217 500	0	159 800	15 000	967 185	704 339	0	262 846	245 800
3	CNRS(FCF)	637 000	120 000	6 000	189 339	20 000	972 339	810 283	0	162 057	335 399
6	DESY(AC)	0	250 000	0	385 000	35 000	670 000	577 908	117 450	92 092	670 000
10	*INFN-LNL*	*0*	*52 775*	*6 435*	*60 000*	*9 508*	*128 718*	*107 265*	*0*	*21 453*	*128 718*
	INFN-LNF	*0*	*40 000*	*10 000*	*10 000*	*15 000*	*75 000*	*62 500*	*0*	*12 500*	*75 000*
	INFN-Mi	*0*	*102 480*	*0*	*58 000*	*11 500*	*171 980*	*143 317*	*0*	*28 663*	*171 980*
	INFN-Ro2	*0*	*126 848*	*9 945*	*45 127*	*18 720*	*200 640*	*167 200*	*0*	*33 440*	*200 640*
	INFN(AC)	0	322 103	26 380	173 127	54 728	576 338	480 282	0	96 056	576 338
12	TUL(AC)	0	52 000	0	80 000	20 000	152 000	126 667	0	25 333	0
13	IPJ(AC)	0	41 000	20 000	87 000	25 000	173 000	144 167	0	28 833	*105 000*
14	WUT-ISE(AC)	0	42 600	0	118 400	10 500	171 500	142 917	0	28 583	171 500
19	PSI(FC)	57 444	58 320	32 467	43 247	10 389	201 867	160 700	0	41 167	0
	Grand total	**1 269 329**	**1 103 523**	**84 847**	**1 235 913**	**190 617**	**3 884 229**	**3 147 263**	**117 450**	**736 967**	**2 104 037**

JRA2 Charge Production with Photo-Injectors (PHIN)

JRA2	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
3	*CNRS-Orsay*	*550 000*	*50 000*	*260 000*	*330 000*	*20 000*	*1 210 000*	*1 008 333*	*0*	*201 667*	*520 000*
	CNRS-LOA	*250 000*	*0*	*0*	*325 000*	*0*	*575 000*	*479 167*	*0*	*95 833*	*325 000*
	CNRS(FCF)	800 000	50 000	260 000	655 000	20 000	1 785 000	1 487 500	0	297 500	845 000
9	FZR-ELBE(AC)	0	100 000	0	75 558	9 775	185 333	154 444	0	30 889	185 333
10	*INFN-LNF*	*0*	*75 000*	*0*	*100 000*	*15 000*	*190 000*	*158 333*	*0*	*31 667*	*190 000*
	INFN-Mi	*0*	*75 000*	*0*	*80 000*	*5 000*	*160 000*	*133 333*	*0*	*26 667*	*160 000*
	INFN(AC)	0	150 000	0	180 000	20 000	350 000	291 667	0	58 333	350 000
11	TEU(FC)	88 500	119 424	0	35 000	3 000	245 924	138 285	0	107 639	122 962
17	CERN (AC)	0	90 000	0	1 110 000	18 000	1 218 000	1 015 000	0	203 000	1 218 000
20	CCLRC-RAL (FC)	52 200	210 000	0	0	5 600	267 800	114 900	0	152 900	55 000
	Grand total	**940 700**	**719 424**	**260 000**	**2 055 558**	**76 375**	**4 052 057**	**3 201 796**	**0**	**850 261**	**2 776 295**

JRA3 High Intensity Pulsed Proton Injectors (HIPPI)

JRA3	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA (FC)	675 000	100 000	350 000	400 000	2 000	1 527 000	1 027 000	0	500 000	450 000
3	*CNRS-IN2P3*	*70 000*	*0*	*0*	*20 000*	*0*	*90 000*	*75 000*	*0*	*15 000*	*20 000*
	CNRS-LPSC	*261 000*	*0*	*0*	*35 000*	*3 000*	*299 000*	*249 167*	*0*	*49 833*	*31 000*
	CNRS(FCF)	331 000	0	0	55 000	3 000	389 000	324 167	0	64 833	51 000
4	GSI(FC)	365 000	190 000	95 300	7 000	13 300	670 600	530 000	0	140 600	240 000
5	IAP-FU(AC)	0	275 000	0	230 000	5 000	510 000	425 000	0	85 000	210 000
7	FZJ(FC)	479 000	132 000	0	110 000	9 000	730 000	358 661	0	371 339	251 000
10	INFN-Mi(AC)	0	22 990	0	30 000	8 000	60 990	50 825	0	10 165	30 000
17	CERN (AC)	0	345 000	0	150 000	15 000	510 000	425 000	0	85 000	250 000
20	CCLRC (FC)	520 460	351 476	0	257 000	5 000	1 133 936	625 307	0	508 629	128 000
	Grand total	**2 370 460**	**1 416 466**	**445 300**	**1 239 000**	**60 300**	**5 531 526**	**3 765 960**	**0**	**1 765 566**	**1 610 000**

JRA4 Next European Dipole (NED)

JRA4	Participant (cost model)	Permanent Staff (Euros)	Additional Staff (Euros)	Durable Equipment (Euros)	Consumables and Prototyping (Euros)	Travel (Euros)	Expected costs (Euros)	Direct cost	Subcontract	Indirect cost	Requested funding (Euros)
1	CEA (FC)	358 116	41 667	0	92 500	24 000	516 283	0	0	516 283	45 000
10	INFN (AC)	0	15 000	0	25 750	7 000	47 750	39 792	0	7 958	47 750
11	TEU (FC)	139 334	0	0	30 000	4 500	173 834	108 637	0	65 197	69 534
15	WUT (AC)	0	6 500	0	4 500	2 000	13 000	10 833	0	2 167	13 000
17	CERN (AC)	0	21 451	0	360 800	7 200	389 451	382 876	350 000	6 575	350 000
20	CCLRC (FC)	274 000	0	0	33 300	16 500	323 800	163 967	0	159 833	26 250
	Grand total	**771 450**	**84 618**	**0**	**546 850**	**61 200**	**1 464 118**	**706 105**	**350 000**	**758 013**	**551 534**

Financial information for the duration of the detailed implementation plan (per contractor)

Proposal Number	506395	Proposal Acronym	CARE

Financial information – "Reporting period 2 + first six months of Reporting period 3"

Partici-pant n°	Organi-sation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
1	CEA		FC	Eligible costs	*Direct costs (a)*	1 731 339		253 350	28 500				2 013 189	
					of which subcontracting	0		0	0				0	
					Indirect costs (b)	1 279 129		194 250	0				1 473 379	
					Total eligible costs (a)+(b)	3 010 468		447 600	28 500				3 486 568	
				Requested EC contribution		740 800		187 260	28 500				**956 560**	
2	UCLN		AC	Eligible costs	*Direct costs (a)*	0			2 000				2 000	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			400				400	
					Total eligible costs (a)+(b)	0			2 400				2 400	
				Requested EC contribution		0			2 400				**2 400**	
3	CNRS		FCF	Eligible costs	*Direct costs (a)*	2 621 950			50 657				2 672 607	
					of which subcontracting	0			0				0	
					Indirect costs (b)	524 390			10 131				534 521	
					Total eligible costs (a)+(b)	3 146 339			60 788				3 207 127	
				Requested EC contribution		1 231 399			60 788				**1 292 187**	
4	GSI		FC	Eligible costs	*Direct costs (a)*	530 000			10 800				540 800	
					of which subcontracting	0			0				0	
					Indirect costs (b)	140 600			0				140 600	
					Total eligible costs (a)+(b)	670 600			10 800				681 400	
				Requested EC contribution		240 000			10 800				**250 800**	
TOTAL				Eligible costs										
				Requested EC contribution										

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Financial information – "Reporting period 2 + first six months of Reporting period 3"														
Participant n°	Organisation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
5	IAP-FU		AC	Eligible costs	*Direct costs (a)*	425 000			0				425 000	
					of which subcontracting	0			0				0	
					Indirect costs (b)	85 000			0				85 000	
					Total eligible costs (a)+(b)	510 000			0				510 000	
				Requested EC contribution		210 000			0				**210 000**	
6	DESY		AC	Eligible costs	*Direct costs (a)*	577 908			64 917				642 825	
					of which subcontracting	117 450			0				117 450	
					Indirect costs (b)	92 092			12 983				105 075	
					Total eligible costs (a)+(b)	670 000			77 900				747 900	
				Requested EC contribution		670 000			77 900				**747 900**	
7	FZJ		FC	Eligible costs	*Direct costs (a)*	358 661			17 000				375 661	
					of which subcontracting	0			0				0	
					Indirect costs (b)	371 339			0				371 339	
					Total eligible costs (a)+(b)	730 000			17 000				747 000	
				Requested EC contribution		251 000			17 000				**268 000**	
8	TUM		AC	Eligible costs	*Direct costs (a)*	0			2 583				2 583	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			517				517	
					Total eligible costs (a)+(b)	0			3 100				3 100	
				Requested EC contribution		0			3 100				**3 100**	
TOTAL				Eligible costs										
				Requested EC contribution										

Please use as many copies of form A3.3 as necessary for the number of participants	***Form A3.3 page***	*2*	***of***	*6*

Financial information – "Reporting period 2 + first six months of Reporting period 3"														
artici-ant n°	Organi-sation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
9	FZR		AC	Eligible costs	*Direct costs (a)*	154 444			7 191				161 635	
					of which subcontracting	0			0				0	
					Indirect costs (b)	30 889			1 438				32 327	
					Total eligible costs (a)+(b)	185 333			8 629				193 962	
				Requested EC contribution		185 333			8 629				**193 962**	
10	INFN		AC	Eligible costs	*Direct costs (a)*	862 566			69 000				931 566	
					of which subcontracting	0			0				0	
					Indirect costs (b)	172 512			13 800				186 312	
					Total eligible costs (a)+(b)	1 035 078			82 800				1 117 878	
				Requested EC contribution		1 004 088			82 800				**1 086 888**	
11	TEU		FC	Eligible costs	*Direct costs (a)*	246 922			12 000				258 922	
					of which subcontracting	0			0				0	
					Indirect costs (b)	172 836			0				172 836	
					Total eligible costs (a)+(b)	419 758			12 000				431 758	
				Requested EC contribution		192 496			12 000				**204 496**	
12	TUL		AC	Eligible costs	*Direct costs (a)*	126 667			2 750				129 417	
					of which subcontracting	0			0				0	
					Indirect costs (b)	25 333			550				25 883	
					Total eligible costs (a)+(b)	152 000			3 300				155 300	
				Requested EC contribution		152 000			3 300				**155 300**	
TOTAL				Eligible costs										
				Requested EC contribution										

Please use as many copies of form A3.3 as necessary for the number of participants	***Form A3.3 page***	*3*	***of***	*6*

Financial information – "Reporting period 2 + first six months of Reporting period 3"														
Partici-ant n°	Organi-sation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
13	IPJ		AC	Eligible costs	*Direct costs (a)*	144 167			2 750				146 917	
					of which subcontracting	0			0				0	
					Indirect costs (b)	28 833			550				29 383	
					Total eligible costs (a)+(b)	173 000			3 300				176 300	
				Requested EC contribution		105 000			3 300				**108 300**	
14	WUT-ISE		AC	Eligible costs	*Direct costs (a)*	142 917			2 750				145 667	
					of which subcontracting	0			0				0	
					Indirect costs (b)	28 583			550				29 133	
					Total eligible costs (a)+(b)	171 500			3 300				174 800	
				Requested EC contribution		171 500			3 300				**174 800**	
15	WUT		AC	Eligible costs	*Direct costs (a)*	10 833			1 250				12 083	
					of which subcontracting	0			0				0	
					Indirect costs (b)	2 167			250				2 417	
					Total eligible costs (a)+(b)	13 000			1 500				14 500	
				Requested EC contribution		13 000			1 500				**14 500**	
16	CSIC		FC	Eligible costs	*Direct costs (a)*	0			13 083				13 083	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			2 617				2 617	
					Total eligible costs (a)+(b)	0			15 700				15 700	
				Requested EC contribution		0			15 700				**15 700**	
TOTAL				Eligible costs										
				Requested EC contribution										

Please use as many copies of form A3.3 as necessary for the number of participants	***Form A3.3 page***	*4*	***of***	*6*

Financial information – "Reporting period 2 + first six months of Reporting period 3"															
artici-ant n°	Organi-sation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
17	CERN		AC	Eligible costs	*Direct costs (a)*	1 822 876			140 652				1 963 528	
					of which subcontracting	350 000			0				350 000	
					Indirect costs (b)	294 575			28 131				322 706	
					Total eligible costs (a)+(b)	2 117 451			168 783				2 286 234	
				Requested EC contribution		1 818 000			168 783				**1 986 783**	
18	UNI-GE		AC	Eligible costs	*Direct costs (a)*	0			16 667				16 667	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			3 333				3 333	
					Total eligible costs (a)+(b)	0			20 000				(20 000)*	
				Requested EC contribution		0			(20 000)*				**(20 000)***	
19	PSI		FC	Eligible costs	*Direct costs (a)*	160 700			11 200				171 900	
					of which subcontracting	0			0				0	
					Indirect costs (b)	41 167			0				41 167	
					Total eligible costs (a)+(b)	201 867			11 200				213 067	
				Requested EC contribution		(201 867)*			(11 200)*				**(11 200)***	
20	CCLRC		FC	Eligible costs	*Direct costs (a)*	904 174			28 239				932 413	
					of which subcontracting	0			0				0	
					Indirect costs (b)	821 362			0				821 362	
					Total eligible costs (a)+(b)	1 725 536			28 239				1 753 775	
				Requested EC contribution		209 250			28 239				**237 489**	
TOTAL				Eligible costs										
				Requested EC contribution										

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Financial information – "Reporting period 2 + first six months of Reporting period 3"														
artici-ant n°	Organi-sation short name	Cost model used		Estimated eligible costs and requested EC contribution		Costs and EC contribution per type of activities							Total (8)= (1)+(2)+(3)+(4)+(5)+(6)+(7)	Total receipts
		For transnational Access	For any other activities			RTD activities (1)	Demonstration activities (2)	Consortium Management activities (3)	Other specific activities					
									Coordination/Networking (4)	Transnational access (5)	Connectivity (6)	Other including Specific Service Activities for CND (7)		
21	ICL		AC	Eligible costs	*Direct costs (a)*	0			29 805				29 805	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			5 961				5 961	
					Total eligible costs (a)+(b)	0			35 765				35 765	
				Requested EC contribution		0			35 765				**35 765**	
22	UMA		AC	Eligible costs	*Direct costs (a)*	0			12 167				12 167	
					of which subcontracting	0			0				0	
					Indirect costs (b)	0			2 433				2 433	
					Total eligible costs (a)+(b)	0			14 600				14 600	
				Requested EC contribution		0			14 600				**14 600**	
TOTAL				Eligible costs		**14 931 930**		**447 600**	**609 604**				**15 989 134**	
				Requested EC contribution		**7 193 866 (201 867)***		**187 260**	**578 404 (+31 200)***				**7 959 530 (+233067)***	

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**Since the contract with EU is expected to be signed in 2003 and the agreement on Swiss participation in the 6th FP will not yet be in force , Swiss Partners should be funded by the Swiss Government*)