

CARE Coordinated Accelerator Research in Europe

Proposta per l'I3 (Integrated Infrastructure Initiatives) del 6° Programma Quadro Europeo FP6.

Attività di coordinamento e di Ricerca e Sviluppo nel campo degli acceleratori per la Fisica delle Particelle.

I temi di ricerca sono :

- collisori lineari e^+e^-
- fasci di neutrini
- fasci di adroni di alta energia.

CARE Coordinated Accelerator Research in Europe

Network Activities (NA):

N1 - ELAN Collisori lineari e^+e^-

N2 - BENE Fasci di neutrini

N3 - HEHIHB Acceleratori per Hadroni di alta intensita' e alta energia

Joint Research Activities (JRA):

JRA1 - SRF – Superconducting Radio Frequency

JRA2 - PHIN – Charge Production with Electron Photoinjectors

JRA3 - HIPPI – High Intensity proton pulsed injector

JRA4 - NED – Next European Dipole.

CARE approvato

Approvati 24/158 progetti(TA,CA,I3), 14/58 solo I3.

Totale 193.7 Meuro.

Voto 4.67/5, 5° posto su I3, 14° sul totale.

Accordati 15.2 Meuro su 29 richiesti.

Firma del contratto con la UE entro la fine dell'anno

Finanziamento da gennaio 2004.

Il 20 e 21 novembre si terrà a Ginevra una riunione generale della collaborazione per dare l'avvio al progetto

**Kick-off meeting of the CARE project at CERN
(Coordinated Accelerator Research in Europe)
accepted by the EC within FP6**

November 20th and 21st in the Council Chamber

Draft Agenda Day 1 (20/11/03)

Plenary public sessions

Chair: ?

11:00 Welcome (R.Aymar)

11:10 General presentation of the CARE project (R. Aleksan: 25+5mn)

**11:40 SRF Joint Research Activities (Superconducting RF) (D. Proch/T. Garvey:
40+5mn)**

12:25 Lunch

Chair: ?

14:00 PHIN Joint Research Activities (Photo-Injectors) (A. Ghigo: 40+5mn)

**14:45 HIPPI Joint Research Activities (High Intensity Proton Pulsed Injector) (R.
Garoby: 40+5mn)**

15:30 Break

Chair: ?

16:00 NED Joint Research Activities (High Field Magnet) (A. Devred: 40+5mn)

16:45 Discussion/questions

17:00 Adjourn plenary public presentation of day 1

Internal CARE meetings:

17:30 CARE council meeting

18:30 end of Governing Board meeting

Draft Agenda Day 2 (21/11/03)

Plenary public sessions

Chair: ?

- 9:00 ECFA's recommendations (B. Foster?)**
- 9:15 ELAN networking activities (E linear accelerator) (F. Richard: 40+5mn)**
- 10:00 BENE: networking activities (neutrino beams) (V. Palladino: 40+5mn)**
- 10:45 Break**

Chair: ?

- 11:15 HEHIHB networking activities (High-energy/High-intensity proton Beams) (H. Haseroth: 40+5mn)**
- 12:00 Discussion/questions**
- 12:15 Future propositions for FP6 (R. Aleksan: 20+10mn)**
- 12:45 End of plenary public CARE presentations**

Internal CARE meetings:

- 14:00 Governing Board meeting**
- 15:30 Joined CARE steering board and Dissemination Board meeting**
- 17:00 Adjourn**

CARE - INFN

L'INFN partecipa con 3 Laboratori Nazionali (LNF, LNL, LNGS) e 11 sezioni.

Partecipano ai JRA :

Frascati, Legnaro, Milano, Genova e Roma 2.

Il contributo accordato all'INFN e' di 2.134 Meuro
(1,934 Meuro per JRA e 200 Keuro per NA).

Partecipazione dei LNF

JRA:

PHIN - Andrea Ghigo, coordinatore

SRF - Michele Castellano

NA:

ELAN - Pantaleo Raimondi (Linac technology normal conducting, Instrumentation)

BENE - Mauro Migliorati (Physics, Novel neutrino beams)

HEHIHB - Bruno Spataro (Accelerator physics and synchrotron design)

PHIN

10	INFN	WP1,3,4		
	INFN-LNF	WP1: M&C	JRA-PHIN Coordinator	6
		WP3: LAS	Laser-RF Synchronisation. Feedback	48
		WP4: GUN	Beam Dynamics studies	72 (36)
	INFN-MI	WP3: LAS	Waveform for laser ultra-short pulses	96 (36)

WP1: Management and Coordination

WP2: Charge Production

WP3: Laser

WP4: Gun

SRF

10	INFN	TOTAL	<i>Permanent staff 494, temporary staff 291 person month</i>	785
		WP11/BD	R&D of a novel non-intercepting diagnostic for emittance	163
		TOTAL	<i>Permanent staff 115, temporary staff 48 person month</i>	163
	INFN-LNL	WP2/ISCF	EB welding	20
		WP3/SCF	SCP by spinning	80
		WP5/SP	Alternative EP	90
		WP6/MA	Flux gate magnetometry	40
		TOTAL	<i>Permanent staff 158 , temporary staff 72 person month</i>	230
	INFN-Mi	WP2/ISCF	Reliability analysis	50
		WP2/ISCF	Improved component design	48
		WP8/TUN	R&D on piezo electric actuators	48
		TOTAL	<i>Permanent staff 75 , temporary staff 71 person month</i>	146
	INFN-Ro2	WP4/TFCP	Development of planar arc cathode	156
		WP11/BD	R&D on a novel non-intercepting diagnostic for emittance	90
		TOTAL	<i>Permanent staff 146 temporary staff 100 person month</i>	246

Design Study

APRILE lettera d'intenti a ESGARD

Design Study for Light Quark $\square$ -Factories at LNF.

Commenti ESGARD:

- Aumento di energia: lavoro su componenti standard
- Serve un “Physics Case” per AE e AL.
- Centrare su AL: interesse internazionale e partecipazione al DS.
- Stima di costo per DS
- Approvazione ECFA al DS per nuovo acceleratore.