

superB

Approval

- SuperB has been approved as the first in a list of 14 “flagship” projects within the new national research plan.
- The national research plan has been endorsed by “CIPE” (the institution responsible for infrastructure long term plans)
- A financial allocation of 250 Million Euros in about five years has been approved for the “superb flavour factory” at the end of 2010

Money flow

- At the end of 2010 an initial sum of 19 ME has been allocated
- A sum of the order of 24 has been announced for 2011 budget
- Dedicated extra resources for computing: 13.7Meuro already allocated

The proposed funding profile

year = year +2

anno	2009	2010	2011	2012	2013	2014
Fase I	20	70	100	20	---	---
FaseII	---	---	---	66	30	30
INFN	10	13	13	13	13	13
overheads	2	7	8	8	8	8
totale	32	90	121	107	51	51

milestones

- Past
 - The site choice
- Present
 - The consortium legal constitution

Site choice: requirements

- Extension
- Electric power supply
- Cooling
- Vibrations
- Vicinity of Frascati

The Tor Vergata option

- Autonomous interest from a wide community of the University (not only physicists)
- First contacts for a feasibility evaluation
 - Space
 - Electricity
 - Water
 - permits

Site requirements ok in a first approximation

- Extension of the order of 300000 square meters
- 2X150 Kilovolt electric supplies nearby
- *** lines available when needed ****
- Water supply adequate and the possibility of additional supply from a number of pits
- Vibration measurements: the good surprise
- Site archaeology free

Added values

- Strong role in the civil engineering works: likely civil engineering will be a university task
- University expertise available for general services (50000 students campus)
- A door to the academic non particle physics community

Tor Vergata University campus

selected

About 4.5 Km

Via di Passolombardo

SP77b
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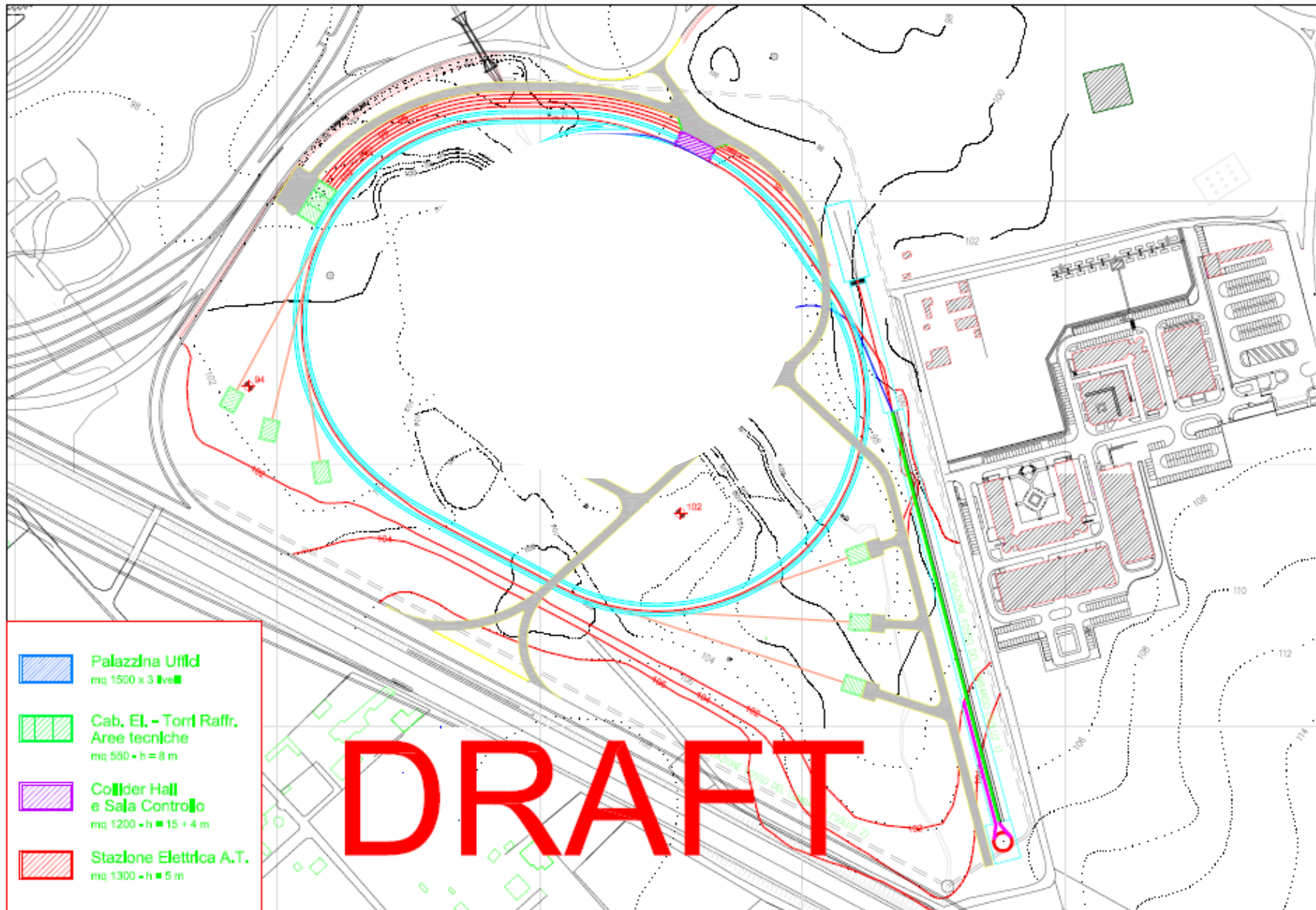
SS215
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A1
dir

LNF



Possible layout



The legal identity

- Three phases
- **INFN**: the past and present starting phase
- **Consortium**:
 - Approved end of July from INFN and University independently
 - **Officially registered on October 7 as “Cabibbo Lab”**
 - Following main European infrastructures
 - More flexibility in the organisation
 - Can directly associate foreign partners (EGO like)
- **European consortium (ERIC)**: the final goal

The consortium governance

- A Cern like management structure
 - A director general and a directorate
 - Departments under director's supervision
 - A scientific evaluation committee
 - Science (phase II)
 - Machine (phase I)
 - A finance evaluation committee
- A known and working scheme

The statute of the Cabibbo lab

- founders: Tor Vergata University and INFN
- Phase I construction, Phase II operation
- Open to additional members
 - Associate
 - Full members

the Italian Institute of Technology joins by the end of the year after the final definition of its economical engagement

The top structure

- Council of member institutions delegates
- Director general
 - Directorate (accelerator, experiment interface, administration, synchrotron light)
- Scientific committee (phase I a Machine Advisory Committee)
- “revisori dei conti”

Voting rights

- Full member with quotas proportional to the contribution

The finance advisory committee

- Monitoring the financial flow and the available resources
- Updating periodically the cost estimate and its comparison with available resources
- Assessing the equivalent financial contribution of in kind deliverables

Accelerator Project management scheme:

- **Accelerator Directorate**

- **Membership:**

- Project Director (Scientific)
 - Deputy Director (Technical) **identified**
 - Chief Engineer (Coordinator)

Accelerator Board

– **Membership:**

- Accelerator Directorate
- WP Leaders
- TA Leaders

– **Function:**

- Supervises and reviews the status of the project.
- Ensures the resources needed in order to achieve the Working Packages deliverables

Delocalized

- **Working Package Leaders functions:**
 - Coordinate the single working package
 - Responsible to follow and achieve the WP deliverables
 - Coordinate **Task Manager – WPTL** (Persons responsible for the realization of the specific WP tasks)

Resident

- **Technical Areas Leaders functions:**
 - Coordinate the technical services staff
 - Responsible for the executive design purchasing and installation of the subsystems
 - About 60/70 people at start time

Superb as a light source

- Soon a workshop for the community at large
- During the high energy physics mode a limited number of beam lines can be operating

Very short term milestones

(By the end of the year)

- Consortium
 - Start spending money (already two meetings of the council)
 - IIT joined
 - Director general appointed and accelerator and physics director enrolled
- Team
 - Calls for new 30 people launched
 - Recognition of INFN personnel achieved
 - Letter of intents with foreign institutions of WP share
 - Civil construction
 - Authorizations for construction advanced

Short term milestones

(By next summer)

- First financial assessment
- WP at work
- Main machine design frozen
- First associate foreign partners under negotiation
- Light source project defined for the first phase
- Civil engineering project in an advanced stage
- Site prepared for work
- Computing centres construction started
- Consortium administration consolidated