

Frascati National Laboratory

overview of infrastructures and activities



Frascati National Laboratory

Istituto Nazionale di Fisica Nucleare

Laboratori Nazionali di Frascati

LNf is the largest, and that with more employees, of the INFN laboratories.

LNf is located 20 km south-east of Rome. It can be reached easily with many trains departing from the Roma Termini station:

- Tor Vergata Station is 150 m from the Lab entrance
- Frascati Station is 2 km away.

Two international airports are present in the Rome area:

- Fiumicino Airport “Leonardo da Vinci” about 40 km from Frascati
- Ciampino Airport about 5 km from Frascati

Traveling by car is also easy. LNf is close to the exit of the highway A1 (Monteporzio Catone).

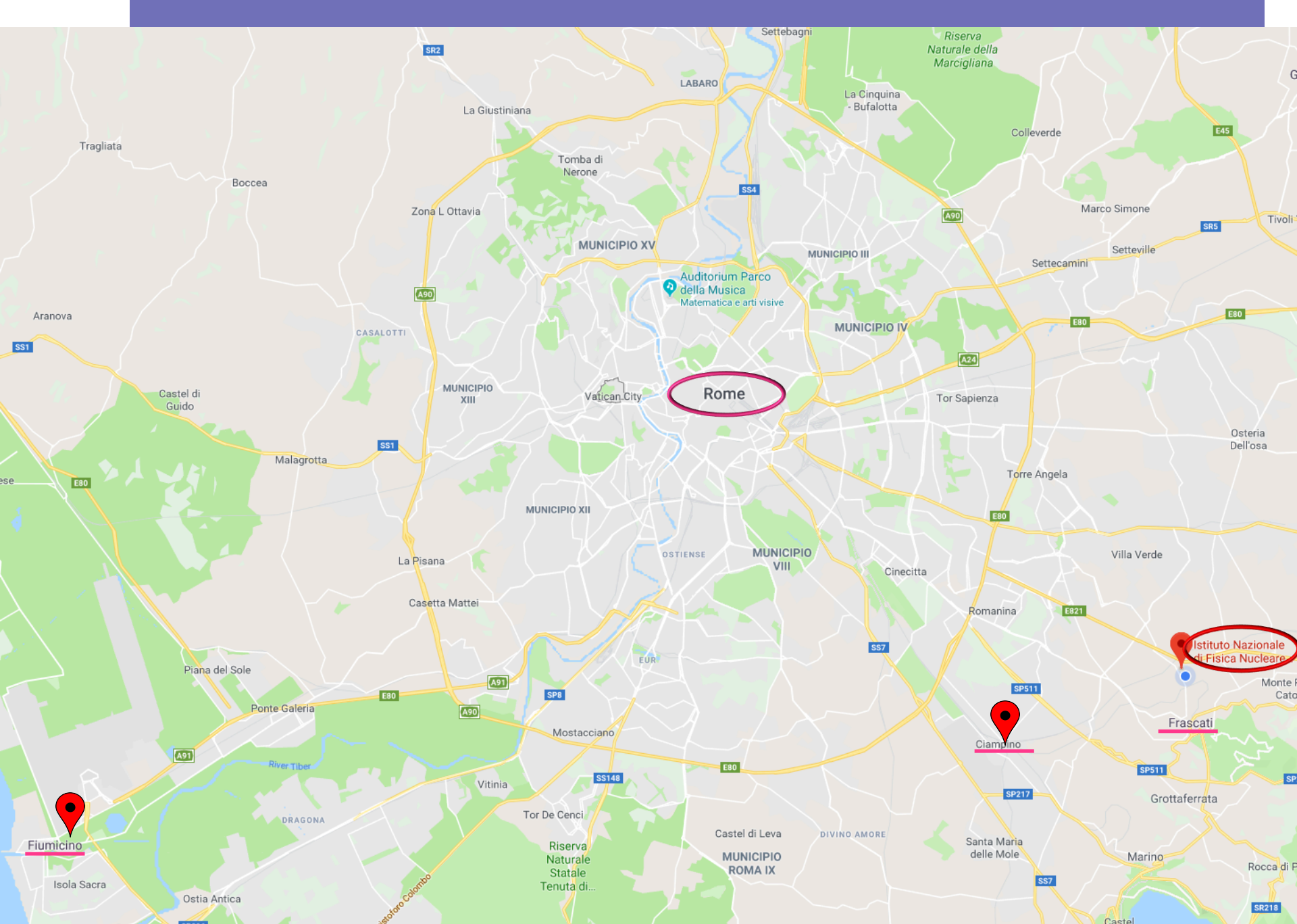
LNF Location



Frascati National Lab



Frascati



Rome

Istituto Nazionale di Fisica Nucleare

Ciampino

Frascati

Fiumicino



Istituto Nazionale di Fisica Nucleare

Laboratori Nazionali di Frascati

The Frascati INFN National Laboratory

Total Staff 317	Researchers 74	Technologist Engineers 63	Technicians 143	Administration Services 37
External Users 339	Italian 231		Foreign 108	
Visitors ~10000	Stages 411	Conference Workshops 15	Participants to Seminars 4000	Course for teachers of high school 200

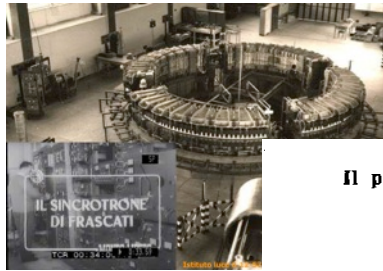
2018 data



Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali di Frascati

The LNF accelerators history

Electron Synchrotron
(1959-1975) E=1 GeV



LNf-54/48 (1954)

Il progetto italiano di un elettrosinotrone.

G. SALVINI

*Istituto di Fisica dell'Università - Pisa
Istituto Nazionale di Fisica Nucleare - Sezione Acceleratore*

The Frascati Storage Ring.

C. BERNARDINI, G. F. CORAZZA, G. GHIGO
Laboratori Nazionali del C.N.E.N. - Frascati

B. TOSCHKE

*Istituto di Fisica dell'Università - Roma
Istituto Nazionale di Fisica Nucleare - Sezione di Roma*

(ricevuto il 7 Novembre 1960)

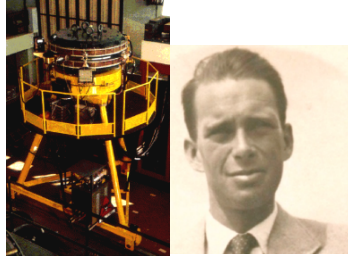


N. Cabibbo

the "bible"

AdA was the first matter antimatter storage ring with a single magnet (weak focusing) in which e^+/e^- were stored at 250 MeV

AdA 1960-
1965
250 MeV



ADONE (1968-1993)
3 GeV 100 m



DAΦNE (1999)
510 MeV 100 m



SPARC_LAB (2004)
150 MeV LINAC

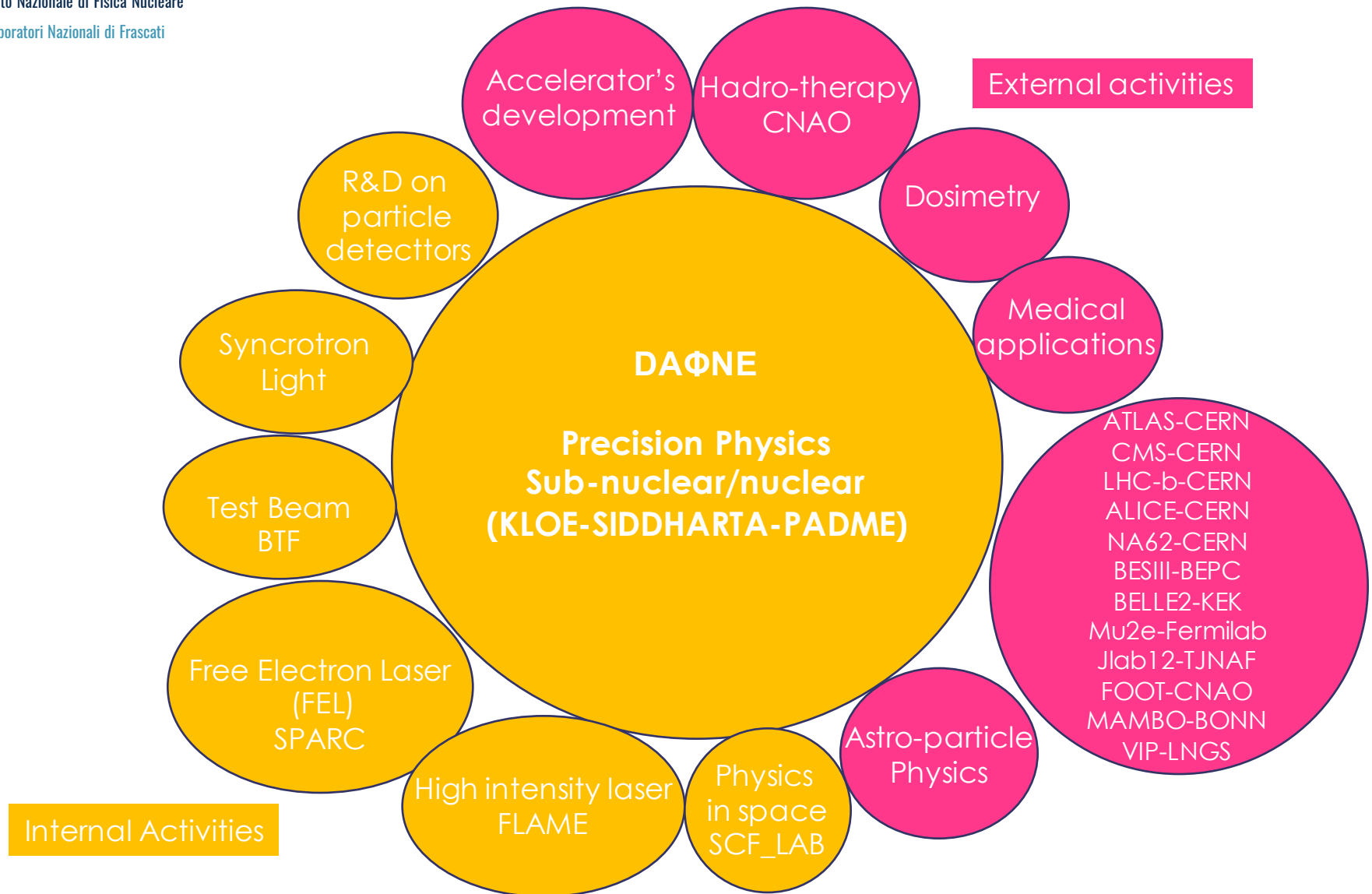
1961	AdA	Frascati	Italy
1964	VEPP2	Novosibirsk	URSS
1965	ACO	Orsay	France
1969	ADONE	Frascati	Italy
1971	CEA	Cambridge	USA
1972	SPEAR	Stanford	USA
1974	DORIS	Hamburg	Germany
1975	VEPP-2M	Novosibirsk	URSS
1977	VEPP-3	Novosibirsk	URSS
1978	VEPP-4	Novosibirsk	URSS
1978	PETRA	Hamburg	Germany
1979	CESR	Cornell	USA
1980	PEP	Stanford	USA
1981	SpS	CERN	Switzerland
1982	P-pbar	Femilab	USA
1987	TEVATRON	Femilab	USA
1989	SLC	Stanford	USA
1989	BEPc	Beijing	China
1989	LEP	CERN	Switzerland
1992	HERA	Hamburg	Germany
1994	VEPP-4M	Novosibirsk	Russia
1999	DAΦNE	Frascati	Italy
1999	KEKB	Tsukuba	Japan
2000	RHIC	Brookhaven	USA
2003	VEPP-2000	Novosibirsk	Russia
2008	BEPcII	Beijing	China
2009	LHC	CERN	Switzerland

colliders in the world

LNFAccelerators and infrastructures



The LNF research areas



Infrastructures

LNF Map

- 1 auditorium (300 places)
 - 12 Meeting rooms
 - Audio/video support
 - Streaming capability
 - Secretary support
-
- Internal caffetteria
 - Internal canteen
 - Internal guest house (20 rooms)
 - Bank/ATM



Internet Access

- Wifi access through EDUROAM available
- Participants may also get access to the LNF network requiring a guest account

Accommodation

- **Frascati** offers several accommodation solutions in the town center or close to the Laboratory.
 - Three hotels are within walking distance and provide a shuttle bus service to and from the Laboratory.
- **Rome**: participants may choose a hotel downtown Rome, nearby the Termini Railway Station and reach the LNF by train getting off at Tor Vergata Station. The journey takes about 20 minutes;
- **LNF Guesthouse**
A simple and cheap accommodation is possible at the LNF guesthouse (for a limited number of rooms).



- Excellence in accelerator physics
- Big infrastructures for detector development
- Wide network of research activities



Thank you !!!