Frascati National Laboratory

overview of infrastructures and activities

M. Testa
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 airport 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).
Istituto Nazionale di Fisica Nucleare
The Frascati INFN National Laboratory

<table>
<thead>
<tr>
<th>Total Staff</th>
<th>Researchers</th>
<th>Technologist Engineers</th>
<th>Technicians</th>
<th>Administration Services</th>
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<tr>
<td>317</td>
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<tr>
<th>External Users</th>
<th>Italian</th>
<th>Foreign</th>
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<tr>
<th>Visitors</th>
<th>Stages</th>
<th>Conference Workshops</th>
<th>Participants to Seminars</th>
<th>Course for teachers of high school</th>
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<tr>
<td>~10000</td>
<td>411</td>
<td>15</td>
<td>4000</td>
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2018 data
The LNF accelerators history

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Location</th>
<th>Country</th>
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<tbody>
<tr>
<td>1961</td>
<td>AdA</td>
<td>Frascati</td>
<td>Italy</td>
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<tr>
<td>1964</td>
<td>VEPP2</td>
<td>Novosibirsk</td>
<td>URSS</td>
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<td>1965</td>
<td>ACO</td>
<td>Orsay</td>
<td>France</td>
</tr>
<tr>
<td>1969</td>
<td>ADONE</td>
<td>Frascati</td>
<td>Italy</td>
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<tr>
<td>1971</td>
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<td>Cambridge</td>
<td>USA</td>
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<tr>
<td>1972</td>
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<td>Stanford</td>
<td>USA</td>
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<td>1974</td>
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<td>Hamburg</td>
<td>Germany</td>
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<tr>
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<td>Novosibirsk</td>
<td>URSS</td>
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<td>1980</td>
<td>PEP</td>
<td>Stanford</td>
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<td>CERN</td>
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<td>Stanford</td>
<td>USA</td>
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<td>Beijing</td>
<td>China</td>
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<tr>
<td>1989</td>
<td>LEP</td>
<td>CERN</td>
<td>Switzerland</td>
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<tr>
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<tr>
<td>1994</td>
<td>VEPP-4M</td>
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<td>1999</td>
<td>DAΦNE</td>
<td>Frascati</td>
<td>Italy</td>
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<tr>
<td>1999</td>
<td>KEKB</td>
<td>Tsukuba</td>
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<td>2000</td>
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<td>Brookhaven</td>
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<td>2008</td>
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<tr>
<td>2009</td>
<td>LHC</td>
<td>CERN</td>
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LNF Accelerators and infrastructures
The LNF research areas

DAΦNE

Precision Physics
Sub-nuclear/nuclear
(KLOE-SIDDHARTA-PADME)

Accelerator's development
Hadro-therapy
CNAO

R&D on particle detectors
Dosimetry

Syncrotron Light
Medical applications

Test Beam BTF
External activities

Free Electron Laser (FEL) SPARC

Internal Activities

High intensity laser FLAME
Physics in space SCF_LAB

Astro-particle Physics

ATLAS-CERN
CMS-CERN
LHC-b-CERN
ALICE-CERN
NA62-CERN
BESIII-BEPC
BELLE2-KEK
Mu2e-Fermilab
Jlab12-TJNAF
FOOT-CNAO
MAMBO-BONN
VIP-LNGS

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BELLE2-KEK
Mu2e-Fermilab
Jlab12-TJNAF
FOOT-CNAO
MAMBO-BONN
VIP-LNGS
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 !!!