

LATINO - Laboratory in Advanced Technologies for Innovation, state of art and future perspectives in INFN

Latino is a program currently on going at INFN-LNF (Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati), funded by regional Government with the aim to build a open research infrastructure.

INFN has a long tradition of transfer technology and collaboration with local industries. This initiative is aiming to consolidate and improve the collaboration and to allow the industries to take profit of the research infrastructure, know-how and expertise of the INFN.

The main activities of INFN-LNF are related to the development of state of the art technologies on Particle Accelerator and especially electron accelerator.

This is a dynamic field both in research and industrial sector which is growing steadily over the years. Novel application of electron linear accelerator (medical, radioisotope production, NDT, sterilization) are opening a new market that local and italian industries can play a significant role.

Through the LATINO infrastructure INFN aims to help and support industries in becoming more competitive.

The LATINO infrastructure is based on 4 different labs:

- . Radiofrequency
- . Vacuum and thermal treatment
- . Magnetic measurements
- . Mechanical Integration.

The 4 labs combined covers a wide range of technologies in use in particle accelerators. The four labs take profit of existing infrastructure and have gone through a comprehensive upgrading and refurbishment process.

The LATINO infrastructure is currently under preparation and it will be fully operational in the 2nd half of 2021.