



**UNIVERSITÀ DEGLI STUDI DI MILANO**  
**DIPARTIMENTO DI FISICA**

LABORATORIO ACCELERATORIE SUPERCONDUTTIVITÀ APPLICATA  
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**Synthetic curriculum of Prof. Carlo Pagani**

Born in Milano in 1947, graduated 'cum laude' in 1971 from the "Politecnico di Milano" in Nuclear Engineering.

- 1971 - joins INFN, to work in the Milan cyclotron group.
- 1978/82 - Assistant Professor (Professore Incaricato) of Particle Accelerators, Physics Department of the Università degli Studi di Milano.
- 1978/80- research associate in Caen, working on the acceleration systems of the GANIL accelerator complex. In the same period, takes part in the ECFA-LEP study group.
- 1981/90- leader of the group that designed and built the RF and vacuum systems for the Milan-LNS superconducting cyclotron.
- 1983/2010 - Associate Professor of Physics, at the Physics Department of the Università degli Studi di Milano, where he has since been teaching Particle Accelerators, Electronics and Physics courses, supervising over 100 thesis works, including PhD, in Italy and abroad.
- 1986 - promotes with R. Bonifacio the ELFA project for the first SASE FEL.
- 1988/92 - joins the INFN ARES project for a FEL facility based on a superconducting linac. Editor of the proposal, his main contributions are in the fields of linac design, SC cavity development, FEL and high brightness RF guns.
- 1992 onwards - joins the TESLA Collaboration as leader of the INFN-Milan Group responsible for a major part of the Italian contribution to TESLA/TTF., including RF gun design, SC cavity design and fabrication in industry, photocathode development, preparation and operation, design and fabrication of the TTF cryostats, theoretical work on the SASE FEL project, etc. INFN Member of the TESLA Collaboration Board and of the TESLA Technical Board
- 1996 onwards - works on the Italian design study for a SC linac based ADS (Accelerator Driven System) for nuclear waste transmutation. Develops matching and cavity design criteria and, once the project is funded, he becomes responsible for the SC linac design, including development and prototyping of low-beta cavities and cryomodules. In 2000 designs the cavities for the SNS Project in US and in 2002 participates to the proposal for the 8 GeV proton driver at FNAL. Member of the Working Party on Partitioning and Transmutation of the OECD/NEA till 2004 and onward of the Working Party on Fuel Cycle (for the Generation IV).
- 1998/2003 - chairman of the TESLA Technical Board
- 2001/10 – member of the Machine Advisory Committee of the LHC at CERN.
- 2003/05 - Project Leader of TESLA and the cold technology expert in the International Technology Recommendation Panel process for the decision of the common technology to be adopted for ILC. TESLA was chosen among the 3 competitors.
- 2005 onward - member of the ILC Global Design Effort and of the ILC Change Control Board

- 2007 onward - European Commission appointed member in the IFMIF/EVEDA Project Committee.
- 2007/10 - represents Italy in the European XFEL International Steering Committee and in the In-Kind Contribution Review Committee.
- 2010 onward - represents Italy in the Council of the European XFEL Project and leads the Italian contribution that includes: half of the 800 superconducting cavities, half of the cryo-modules, the photo-cathode system and the complete 3<sup>rd</sup> harmonic module for the beam phase space linearization.
- 2010 onward – Full Professor of Physics at the Physics Department of the Università degli Studi di Milano.
- 2014 onward - Appointed Visiting Professor of the Institute of High Energy Physics (IHEP), Chinese Academy of Science, Beijing.

Member or chairman of several Steering and Review Committees related to accelerator projects, author of over 200 papers, presenter of over 40 invited talks at International Conferences and Workshops, lecturer in 8 International Accelerator Schools in Asia, Europe and US.



Prof. Carlo Pagani  
Full Professor of Experimental Physics at University of Milano  
Visiting Professor of IHEP, Chinese Academy of Science