

Torino, May 12 2022

## **Curriculum vitae**

### **Roberto Cirio**

I graduated in Physics in Turin in 1983. I spent a period of 4 years, between 1983 and 1987 at CERN. From 1988 to 2007, I was an employee at the Turin Section of the National Institute of Nuclear Physics - INFN (Researcher and, since 1999, First Researcher). From 1 October 2007 Full Professor at the Faculty of Medicine of the University of Turin, Chair of Physics. I am working in the Physics Department of the University of Torino.

In the period 1983-2000 I participated to experiments of elementary particle physics (DELPHI and CMS at CERN, ZEUS at DESY). Since 1993, I work on applications of Physics in medicine, in particular on instrumentation for radiotherapy with hadrons and photons. From 1994 to 2005, I was responsible for three INFN experiments, aimed at the design and construction of instrumentation for the control and dosimetry of therapeutic beams of hadrons; on this subject, I participated to a PRIN. In the context of these experiments it was developed a dosimeter for conventional radiation therapy, now produced by IBA Dosimetry (MatriXX, and its modified version Startrack), sold in more than 1500 items to radiotherapy departments around the world. I was Scientific Director of the European Scientific Institute (ISE) from 1997 to 2005, organizing over thirty conferences, workshops and Courses on topics of physics applied to medicine. In the period 2004-2011, I have been head of the project Nozzle for the National Center of Oncological Hadrontherapy (CNAO) in Pavia. CNAO treats cancer with radiation therapy with protons and carbon, and the Group of which I had responsibility has built the equipment for the control of the beam. I am co-author of one international patent and I was co-founder of two spin-off companies of UniTo and INFN (DeTecTor and ISEE). I participated to 3 European Community projects of FP6 and FP7 programs (MAESTRO, ENLIGHT, ENVISION). I am head of the Medical Physics group of the Physics Department of the University of Torino.

I am coauthor of over 250 publications in journals and referee of Medical Physics, Physics in Medicine and Biology, Radiation Measurements, Medical and Biological Engineering in Computing, Nuclear Instruments and Methods in Physics Research.

In the period 2011-2013, I have been Vice-president of AIFM (Italian Association of Medical Physics).