

CV of Ugo Amaldi

Ugo Amaldi is president of the Italian Foundation TERA (Tumour therapy with hadronic radiations) since its creation in 1992. In the 60s has been Director of Research at the National Health Institutes in Rome (ISS), where he worked on radiation physics and nuclear physics. After the discovery of the proton-proton rising cross-sections, in 1973 he was offered a senior position at CERN. Here he worked in particle physics and accelerator developments; in particular he directed, from 1981 to 1994, the International collaboration DELPHI formed of about five hundred physicists coming from twenty countries.

Between 1990 and 2006 he was Physics Professor in Florence and Milan. He is Doctor *honoris causa* of the Universities of Lyon, Helsinki, Uppsala, Valencia and, since 2012, is Fellow of the European Physical Society and Distinguished Affiliated Professor at TUM (Technische Universität München). He was attributed the Bruno Pontecorvo Prize (first edition) for his contributions to the study of weak interactions and to the unifications of the fundamental forces.

Under his guidance TERA – which has its offices and laboratories at CERN – developed, in collaboration with CERN, two novel types of accelerators for tumour therapy. The first one has been built by the Italian CNAO Foundation in Pavia (Italy) and has treated more than 600 patients. The second one is a linac, which is being built at CERN by the Suisse Company A.D.A.M. (Geneva).

About 500 publications account his scientific activities in the fields of physics of atoms, nuclei, fundamental particles, accelerators and medical physics. In the last 30 years more than one third of the Italian high school pupils have studied physics on his textbooks.