

Alberto Giuliano Albo - CV

He graduated in Physics at the University of Turin, he got the doctorate in Metrology in 2006 at the Politecnico di Torino.

He has been working at Istituto Elettrotecnico Galileo Ferraris and INRiM since 2003 on research topics dealing with thermodynamics and thermometry, mainly developing new instrumentation for measuring density and speed of sound of fluids. He contributed to the new determination of the Boltzmann constant obtained using primary acoustic thermometers. In 2019, the obtained results have been used to fix the value of the Boltzmann constant, without uncertainty, today adopted to provide a new definition of the kelvin in the International System of Units (SI).

Before the introduction of the 4th generation refrigerants, he contributed to the preparatory researches necessary to collect speed of sound and density measurements used by ISO working groups to implement Standard equations of state. Today interest is focusing on the development of new instrumentation suitable to be used as transfer standard for reducing the gap between laboratory and on-site calibrations in the field of power-to-gas, power-to-liquids, LNG, decarbonisation and carbon dioxide reprocessing.