

Since 2016, Prof. Gianluigi Casse is Director of the Sensors and Devices centre of Fondazione Bruno Kessler (FBK) in Trento. FBK is the top research foundation in Italy, ranked 1st for scientific excellence in 3 different thematic areas and for the economic and social impact according to the results of the latest ANVUR evaluation on research quality. Gianluigi Casse is an experimental physicist with deep experience in the field of instrumentation for large particle physics experiments. He worked at CERN and at the University of Liverpool where he is full professor of experimental physics and was for several years head of R&D of the High Energy Physics group.

He is a member of the LHCb experiment at CERN, for which he gave a substantial contribution to the conception, design, production and implementation of the central detection system of the experiment (VELO, Vertex Locator). He contributed to the design of the ATLAS experiment tracer and the upgrades currently underway. He leads (as co-spokesperson) the RD50 experiment (Radiation hard semiconductor devices for very high luminosity colliders) at CERN, which involves over 400 researchers from over 60 different international institutes to study new sensors capable of withstanding the prohibitive radiation conditions expected for future physics experiments and extreme applications. As director of the S&D centre, his main current interests are in research and innovation, along with their promotion, in nanotechnology, with particular reference to applications in sensor, imaging and quantum technologies.