

Nomination for CB Chair of the DRD7 Collaboration

Prof. Attilio Andreazza

Short CV

Studies and academic records

- Since 2017 Full Professor at Università degli Studi di Milano
- 2011-2017 Associate Professor at Università degli Studi di Milano
- 2000-2011 Research Officer at Università degli Studi di Milano
- 1999-2000 Research Associate Universität Bonn
- 1997-1998 Research Fellow CERN Geneva
- 1996 Post-Doc Fellowship INFN Milano
- 1995 PhD in Physics at Università degli Studi di Milano
- 1991 Master degree in physics at Università degli Studi di Milano

Research activity and responsibilities

My research activity is carried out in the field of Physics of Fundamental Interactions: study of processes containing short-lived particles, tracking systems and research and development on silicon detectors.

I started my career in the DELPHI experiment at LEP, where I participated to the operation and upgrades of the vertex detector and to tau lepton physics studies. I currently participate in the ATLAS experiment at CERN's Large Hadron Collider, where I studied the decay of the Higgs boson in $\tau^+\tau^-$ pairs and now I am involved in the construction of the new silicon pixel detector of the ATLAS ITk for the High-Luminosity LHC. I am also looking at monolithic detector development for tracking at a future circular e^+e^- Higgs factory.

I have been working in strong connection with electronics groups and designers since 1999 when I started a post-doc on the development of the pixel detectors now taking data in the ATLAS experiment. I have been involved in the FTK project, for track reconstruction with associative memories and I am a member of the RD53 and ARCADIA Collaborations. The Milano group I represent in the CB is also involved in silicon photonics, development of high-performance timing chips, power distribution design for ATLAS LAr calorimeter and the DUNE experiment.

Within these activities I covered the following responsibilities:

- Since 2024 Member of the ATLAS Collaboration Board Chair Advisory group
- Since 2020 Production manager of the ITk pixel detector of ATLAS
- Since 2014 Expert member of the Belle Program Advisory Committee at KEK
- 2013-2020 Observer in INFN committee CSN5 – Technological Research
- 2012-2020 Milano representative in INFN committee CSN1 – Particle Physics

- 2015-2017 Principal Investigator of the HVR-CCPD project, development of depleted CMOS pixel detectors
- 2013-2015 Convener of the ATLAS experiment Tau Performance working group
- 2010-2012 Convener of the ATLAS experiment Inner Tracking working group
- 2006-2010 Responsible of the ATLAS pixel detector software and deputy coordinator of Milan Tier2
- 2003-2006 Coordinator of acceptance and production tests of the ATLAS pixel detector modules
- 1993-1998 Responsible of the DELPHI tracking system alignment