CV TOSI SILVANO

Academic and scientific path

a. from July 2017: associate professor, SSD FIS01, sector 02/A1, at the Department of Physics of the University of Genoa;
b. from December 2011: permanent researcher, SSD FIS01, sector 02 / A1, at the Department of Physics of the University of Genoa;
c. from October 2008 to December 2011, researcher contract at the Institute of Nuclear Physics in Lyon, France, for research activities at the CMS experiment.
d. from July 2004 to October 2008: holder of research grants University of Genoa for research activities of the BABAR experiment, for a total of 4 years;
e. May 2004: attainment of the Ph.D. in Physics at the University of Genoa.
f. April 2000: Master Degree in Physics at the University of Genoa with 110/110 vote with honors.

Within the BABAR collaboration, the main research topics concerned the muon detector IFR (construction, commissioning and operation managing), the study of charmonium states in B decays, the search for New Physics in bottomonium decays and the coordination of several groups (review committees and data quality group).

Within the CMS collaboration, the main research topics concerned the study of top quark pairs and single top production for either searches of new physics of precision measurements of top-quark properties, the study and integration of matrix-element Montecarlo generators, including the coordination of groups (top-quark cross sections, matrix-element generators, review committees), calibration of silicon-strip channels, mechanics of CT-PPS.

Within the Euclid collaboration, the main research topics concern the forecasts of the expected performances using multiple probes, the simulations of the near-infrared spectrograph with realistic effects and the proposal for an algorithm for flux calibration of the spectrograph.

In addition, I participate in the joint project for the exploitment for scientific research, outreach and teaching of the Observatory of the Antola Park, and I am the director of the inter-departmental center for astronomy of the University of Genoa since 2018.

I have been teaching general physics since 2012, introduction to nuclear physics, particle physics and astrophysics from 2016 to 2018 and astrophysics and cosmology since 2019.

I have directed several master theses in physics and undergrad theses in material science.

I have participated to outreach activities for the Department of Physics of the University of Genova since 2013.

I was member of the "Research Commission" of the Department of Physics from 2015 to 2018, of the Giunta since 2015 and of the "Outreach Commission" of the Faculty of Science and responsible for the funds for outreach within the Piano Lauree Scientifiche since 2019.