Contribution ID: **476** Type: **Parallel session talk**

Towards a fully NNLO Monte Carlo generator for low energy e+e- data into hadrons and leptons.

Friday 19 July 2024 09:30 (15 minutes)

In the last 15 years the "Radio MontecarLow ("Radiative Corrections and Monte Carlo Generators for Low Energies") Working Group (WG), see www.lnf.infn.it/wg/sighad/, has been providing valuable support to the development of radiative corrections and Monte Carlo (MC) tools for low energy e+e- data. By bringing together in more than 20 meeting experts working in the field of e+e- physics, the WG produced the report "Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data"S. Actis et al. Eur. Phys. J. C 66, 585-686 (2010) (https://arxiv.org/abs/0912.0749), which is highly cited. All this effort has been recently included in the STRONG2020 project for the realization of a MC event generator with fully NNLO corrections for low energy e+e- data into hadrons and leptons, which is of relevance for precise tests of the Standard Model as the determination of the leading hadronic contribution to the muon g-2. We will report on this initiative.

Alternate track

1. Beyond the Standard Model

I read the instructions above

Yes

Co-author: TORRES BOBADILLA, William (University of Liverpool)

Presenter: TORRES BOBADILLA, William (University of Liverpool)

Session Classification: Top Quark and Electroweak Physics

Track Classification: 04. Top Quark and Electroweak Physics