

PrecisionSM: an annotated database for low-energy positron-electron hadronic cross sections

Friday 19 July 2024 20:40 (20 minutes)

Developed within the European Project STRONG2020, PrecisionSM is an annotated database that compiles the available data on low-energy hadronic cross sections in electron-positron collisions. It is important to collect and organize these experimental measurements since they are used to perform precise tests of the Standard Model, such as in the anomalous magnetic moment of the muon. In addition to the datasets, the database also contains details regarding the systematic uncertainties and the treatment of Radiative Corrections. The database is accessible through a custom website (<https://precision-sm.github.io>) which lists all published measurements and the links to their location on HEPData. Moreover, the website displays some examples of tools to elaborate the data listed. This talk will discuss the current status of this project and its future prospects, and will also provide examples on how to display the information of the database.

Alternate track

1. Top Quark and Electroweak Physics

I read the instructions above

Yes

Primary author: DRIUTTI, Anna (Universita & INFN Pisa (IT))

Presenter: DRIUTTI, Anna (Universita & INFN Pisa (IT))

Session Classification: Poster Session 2

Track Classification: 06. Strong Interactions and Hadron Physics