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PrecisionSM: an annotated database for low-energy positrons-electrons into hadrons

PrecisionSM is an annotated database for low-energy e^+e^- into hadrons developed within the European Project STRONG2020 (http://www.strong-2020.eu). It relies on a custom web site (https://precision-sm.github.io) to list the measurements with links to their HEPData (https://www.hepdata.net/) location together with examples of tools to elaborate them.

The database contains information about the datasets, the systematic uncertainties and the treatment of Radiative Corrections. Such information is important for performing precision tests of the Standard Model, in the anomalous magnetic moment of the muon or in the electroweak sector where a limiting factor is the accuracy on the effective electromagnetic coupling at the Z boson mass. Such accuracy ultimately relies on quality of $e^+e^- \rightarrow hadrons$ data. This talk will describe the status and the prospects of this project, and it will also give an example on how to display the information of the database.

Collaboration / Activity

STRONG2020 Project

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