

Programmatic access to PDG data

Thursday, June 8, 2023 4:30 PM (30 minutes)

The data published by the Particle Data Group (PDG) in the Review of Particle Physics has traditionally been made available to the HEP community and beyond as a biennial publication in a scientific journal, in print as the PDG Book and the Particle Physics Booklet, and more recently primarily via the PDG website and the interactive pdgLive web application. Except for a number of data files downloadable from the PDG website, these formats are aimed at human reading and do not support programmatic access. In order to make all PDG data easily accessible in machine-readable format for different use cases, PDG is developing a set of new tools, namely a REST API, a downloadable database file containing the PDG data, and an associated Python package. I will present these new tools, discuss the status of their implementation, and give examples of their usage.

Primary author: BERINGER, Juerg (Lawrence Berkeley National Laboratory)

Presenter: BERINGER, Juerg (Lawrence Berkeley National Laboratory)

Session Classification: Analysis tools

Track Classification: Analysis tools